ORDER NO. BSD03100250
D21

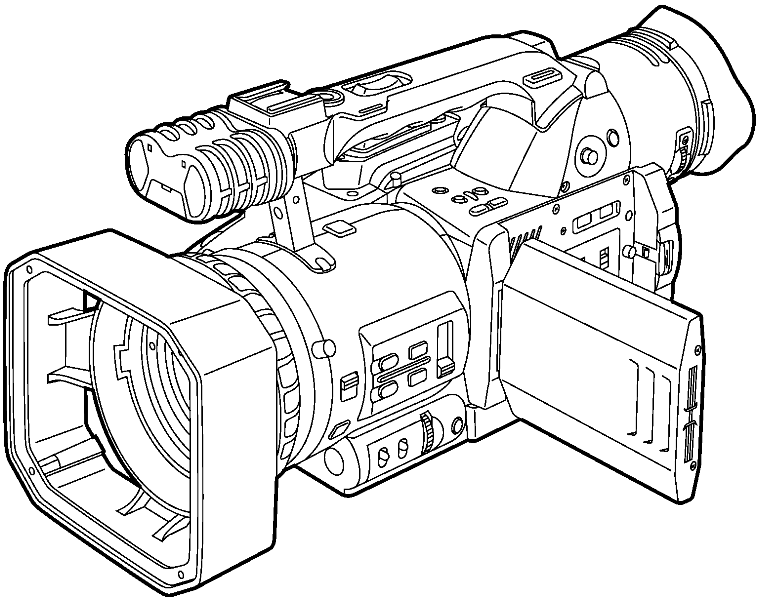
Service Manual

Sec. 1 Service Information
Sec. 2 Disassembly Procedures
Sec. 3 Mechanical Adjustment
Sec. 4 Electrical Adjustment
Sec. 5 Block Diagrams
Sec. 6 Schematic Diagrams
Sec. 7 Circuit Board Diagrams
Sec. 8 Exploded Views & Replacement Parts List

Mini DV

Digital Video Camera Recorder

AG-DVX100AP/AN
AG-DVX100AE/EN
AG-DVC180AMC



Panasonic

© 2003 Matsushita Electric Industrial Co., Ltd. All rights reserved.
Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

AG-DVX100AP

Specifications

[GENERAL]

Supply voltage: DC 7.2/7.9 V
Power consumption:
6.8 W (when viewfinder is used)
7.8 W (when LCD monitor is used)
9.2 W (max.)

▭ indicates safety information.

Ambient operating temperature
32°F to +104°F (0°C to +40°C)

Ambient operating humidity
10% to 85% (no condensation)

Weight
3.731 lb (1.69 kg)
(excluding battery and accessories)

Dimensions (W×H×D)
5 1/2×6 5/16×14 3/8 inches
(139×160×364 mm)

Recording format
Digital video SD format

Tape format
Mini DV

Recorded video signals
525i (NTSC)
In the progressive mode, the signals are converted into the 525i system and recorded.

Shooting mode
60i (525i)
Progressive mode (30P, 24P or 24P advance)

Recorded audio signals
PCM digital recording
16 bits: 48 kHz/2 channels
12 bits: 32 kHz/4 channels

Recording tracks
Digital video, audio signals:
helical track
Time code:
helical track (sub-code area)

Tape speed
SP mode: 18.812 mm/sec.
LP mode: 12.555 mm/sec.

Recording time (when AY-DVM60 is used)
SP mode: 60 minutes
LP mode: 90 minutes

Tape used
6.35 mm wide metal tape

FF/REW time
Approx. 85 sec. (when AY-DVM60 is used)

Pick-up device
Interline transfer 1/3-inch CCD image senser (×3)

Number of pixels
Total number of pixels: 410,000,
Number of effective pixels: 380,000
(pixel offset system)

Lens
Leica DICOMAR optical image stabilizer lens, motorized/manual mode switching, 10× zoom
F1.6 (f = 4.5 to 45 mm)
(35 mm equivalent: 32.5 to 325 mm)

Optical system
Prism system

ND filters
1/8, 1/64

Gain
0, +3, +6, +9, +12, +18 dB (60i mode)
0, +3, +6, +9, +12 dB (progressive mode)
(Fixed at 0 dB in the slow shutter mode)

Shutter speeds
Preset
60i mode:
1/60 (OFF), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec.
30P mode:
1/30, 1/50 (OFF), 1/60, 1/120, 1/250, 1/500, 1/1000 sec.
24P, 24P (ADV) mode:
1/24, 1/50 (OFF), 1/60, 1/120, 1/250, 1/500, 1/1000 sec.
Synchro scan
60i mode : 1/60.3 to 1/250.0 sec.
30P mode: 1/30.1 to 1/250.0 sec.
24P, 24P (ADV) mode:
1/24.1 to 1/250.0 sec.
Slow shutter
60i mode : 1/4, 1/8, 1/15, 1/30
30P mode: 1/4, 1/8, 1/15
24P/24P (ADV) mode:
1/6, 1/12

Minimum subject illuminance
3 lux (F1.6, 18 dB gain, 50 IRE video output)

Lens hood
Large-sized lens hood with wide angle of view

Filter diameter
72 mm

LCD monitor
3.5-inch LCD color monitor, 200,000 pixels

Viewfinder
0.44-inch LCD color viewfinder, 180,000 pixels

Internal microphone
Stereo microphone

Internal speaker
20 mm diameter

Specifications

[VIDEO]

Sampling frequency
Y: 13.5 MHz, PB/PR: 3.375 MHz
Quantizing
8 bits
Video compression system
DCT + variable length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

VIDEO IN/OUT (input/output automatically switched)
Pin jack, analog composite input/output, 1.0 V [p-p], 75 Ω
S-VIDEO IN/OUT (input/output automatically switched)
S-connector, Y/C separate signal input/output, Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω
AUDIO IN/OUT (input/output automatically switched)
Pin jacks ×2 (CH1, CH2)
Input: 316 mV, high impedance
Output: 316 mV, 600 Ω
DV
4-pin, digital input/output, IEEE 1394 standard complied with
INPUT 1, INPUT 2
XLR (3 pins) ×2 (CH1, CH2)
LINE/MIC switching, high impedance
LINE : 0 dBu
MIC : –50 dBu/–60 dBu (menu selection)
DC INPUT
7.9 V
PHONES
Stereo (3.5 mm diameter)
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Power Source:
110/120/220/240 V AC, 50/60 Hz
Power Consumption:
18 W

▭ indicates safety information.

Weight
0.35 lb (0.16 kg)
Dimensions (W×H×D)
2 13/16×1 13/16×4 5/8 inches
(70×44.5×116 mm)

[OPTIONAL ACCESSORIES]

Wide conversion lens
AG-LW7208G
16:9 conversion lens
AG-LA7200G
XLR microphone
AG-MC100G
Hard carrying case
AG-HT100G
Soft carrying case
AG-SC100G
Battery
CGR-D16 (1600 mAh: product equivalent to battery supplied)
CGP-D28 (2800 mAh)
CGA-D54 (5400 mAh)
AC adapter kit
AG-B15 (product equivalent to AC cable, DC cable and AC adapter supplied)
Cleaning tape
AY-DVMCLA

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Specifications

[GENERAL]

Supply voltage:
DC 7.2 V (Battery)
DC 7.9 V (AC adapter)
Power consumption:
6.8 W (when viewfinder is used)
7.8 W (when LCD monitor is used)
9.2 W (max.)

▭ indicates safety information.

Ambient operating temperature
0°C to +40°C
Ambient operating humidity
10% to 85% (no condensation)
Weight
1.69 kg (excluding battery and accessories)
Dimensions (W×H×D)
139×160×364 mm
Recording format
Digital video SD format
Tape format
Mini DV
Recorded video signals
625i (PAL)
In the progressive mode, the signals are converted into the 625i system and recorded.
Shooting mode
50i (625i)
Progressive mode (25P)
Recorded audio signals
PCM digital recording
16 bits: 48 kHz/2 channels
12 bits: 32 kHz/4 channels
Recording tracks
Digital video, audio signals:
helical track
Time code:
helical track (sub-code area)
Tape speed
SP mode: 18.831 mm/sec.
LP mode: 12.568 mm/sec.
Recording time (when AY-DVM60 is used)
SP mode: 60 minutes
LP mode: 90 minutes
Tape used
6.35 mm wide metal tape
FF/REW time
Approx. 85 sec. (when AY-DVM60 is used)

Pick-up device
Interline transfer 1/3-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 470,000,
Number of effective pixels: 440,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized/manual mode switching, 10× zoom
F1.6 (f = 4.5 to 45 mm)
(35 mm equivalent: 32.5 to 325 mm)
Optical system
Prism system
ND filters
1/8, 1/64
Gain
0, +3, +6, +9, +12, +18 dB (50i mode)
0, +3, +6, +9, +12 dB (progressive mode)
(Fixed at 0 dB in the slow shutter mode)
Shutter speeds
Preset
50i mode:
1/50 (OFF), 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec.
25P mode:
1/25, 1/50 (OFF), 1/60, 1/120, 1/250, 1/500, 1/1000 sec.
Synchro scan
50i mode:
1/50.2 to 1/248.0 sec.
25P mode:
1/25.1 to 1/248.0 sec.
Slow shutter
50i mode:
1/3, 1/6, 1/12, 1/25 sec.
25P mode:
1/3, 1/6, 1/12 sec.
Minimum subject illuminance
3 lux (F1.6, 18 dB gain, 50 % video output)
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
72 mm
LCD monitor
3.5-inch LCD colour monitor, 200,000 pixels
Viewfinder
0.44-inch LCD colour viewfinder, 180,000 pixels
Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

Specifications

[VIDEO]

Sampling frequency
Y: 13.5 MHz, PB/PR: 6.75 MHz
Quantizing
8 bits
Video compression system
DCT + variable length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

VIDEO IN/OUT (input/output automatically switched)
Pin jack, analogue composite input/output, 1.0 V [p-p], 75 Ω
S-VIDEO IN/OUT (input/output automatically switched)
S-connector, Y/C separate signal input/output, Y: 1.0 V [p-p], C: 0.3 V [p-p], 75 Ω
AUDIO IN/OUT (input/output automatically switched)
Pin jacks ×2 (CH1, CH2)
Input: 316 mV, high impedance
Output: 316 mV, 600 Ω
DV
4-pin, digital input/output, IEEE 1394 standard complied with
INPUT 1, INPUT 2
XLR (3 pins) ×2 (CH1, CH2)
LINE/MIC switching, high impedance
LINE : 0 dBu
MIC : –50 dBu/–60 dBu (menu selection)
DC INPUT
7.9 V
PHONES
Stereo (3.5 mm diameter)
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Input:
100 – 240 V AC, 50/60 Hz, 20 W
Output:
Video camera: DC 7.9 V, 1.4 A (max.)
Charge: DC 8.4 V, 1.2 A

▭ indicates safety information.

Weight
0.16 kg
Dimensions (W×H×D)
70×44.5×116 mm

[OPTIONAL ACCESSORIES]

Wide conversion lens
AG-LW7208G
16:9 conversion lens
AG-LA7200G
XLR microphone
AG-MC100G
Hard carrying case
AG-HT100G
Soft carrying case
AG-SC100G
Battery
CGR-D16S (1600 mAh)
CGP-D28S (2800 mAh)
CGA-D54S (5400 mAh: product equivalent to battery supplied)
AC adapter kit
AG-B15E (product equivalent to AC cable, DC cable and AC adapter supplied)
Cleaning tape
AY-DVMCLC

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts, which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5MΩ.

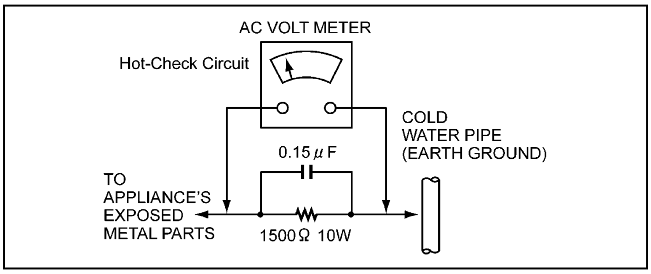


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, in parallel with a 0.15μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:
PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:

1. Pb free solder has a higher melting point than standard solder; Typically the melting point is 50–70°F (30-40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700±20°F (370±10°C).
2. Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as “anti-static” can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
   (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

IMPORTANT

“Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws.”

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

The socket-outlet shall be installed near the equipment and shall be easily accessible.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C.
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Notice (U.S.A.only):

This product has a fluorescent lamp that contains a small amount of mercury.
It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations.
For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org.>

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

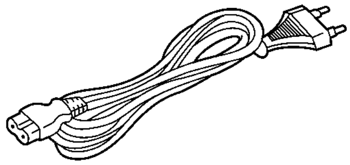
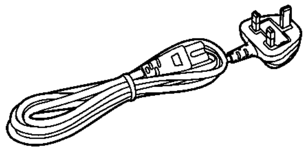
▭ indicates safety information.

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC.	**FOR U.K. ONLY**
Not to be used in the U.K. 	If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted. 

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark ◈ or the BSI mark ▽ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

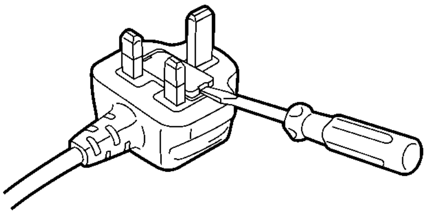
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

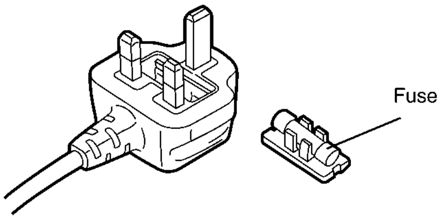
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
- Under no circumstances shoul either of these wires be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ .

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



▭ indicates safety information.

IMPORTANT

"Unauthorized recording of copyrighted television programmes, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

■ DO NOT REMOVE PANEL COVER BY UNSCREWING.

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

AC Adapter

- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C.
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

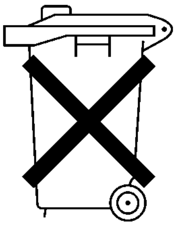
CAUTION:

The socket-outlet shall be installed near the equipment and shall be easily accessible.

▭ indicates safety information.

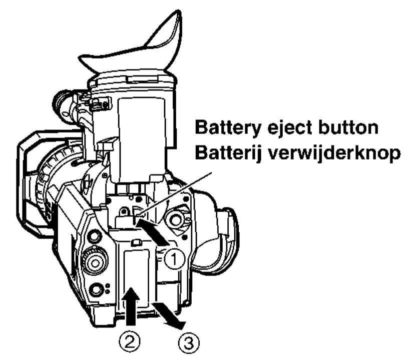
Attention/Attentie

- Batteries are used for the main power source, memory back-up in the product and remote controller.
  At the end of their useful life, you should not throw them away.
  Instead, hand them in as small chemical waste.
- Voor de primaire voeding en het reservegeheugen van het apparaat, alsmede voor de afstandsbediening, wordt gebruik gemaakt van een batterij.
  Wanneer de batterij uitgeput is, mag u deze niet gewoon weggooien, maar dient u ze als klein chemisch afval weg te doen.



To remove the battery/ Verwijderen van de batterij

Main Power Battery
Batterij Voor Primaire Voeding



Panasonic

FCD0311NMHK135

SECTION 1

SERVICE INFORMATION

CONTENTS

1. SERVICING FIXTURES AND TOOLS INF-1
  1-1. Summary Table of Servicing Fixtures and Tools INF-1
2. MAINTENANCE INF-4
  2-1. Maintenance Chart INF-4
  2-2. Mechanical Parts Location INF-5
3. MANUAL TAPE EJECT (EMERGENCY EJECT) INF-6
4. LITHIUM BATTERY INF-7
  4-1. Replacement Procedure INF-7
5. SERVICE MENU INF-8
  5-1. Diagnostic Menu INF-8
    5-1-1. VTR and CAMERA Microprocessor Software Version Display INF-8
    5-1-2. How to display the Error Rate INF-9
    5-1-3. Auto Off Log INF-10
  5-2. Adjust Menu INF-11
    5-2-1. Setting item for LISTA Adjustment INF-11
    5-2-2. Adjustment item for Video Level INF-12
    5-2-3. White Blemish Compensation INF-12
    5-2-4. Camera Debug Information INF-12
    5-2-5. VTR EEPROM Version INF-12
6. CAMERA REMOTE INF-13
  6-1. Record start / stop input INF-13
  6-2. Zooming control input INF-13
7. SOFTWARE INF-14
  7-1. Software Version Display INF-14
    7-1-1. Camera EEPROM Version INF-14
    7-1-2. VTR EEPROM Version INF-14
    7-1-3. VTR & CAMERA Microprocessor Software Version INF-14
  7-2. EEPROM Data INF-15
    7-2-1. Setting menu data INF-15
    7-2-2. The other data INF-15
  7-3. EEPROM Version Upgrade INF-15
8. INTERCONNECTION INF-16
9. CIRCUIT BOARD LAYOUT INF-17

1. SERVICING FIXTURES AND TOOLS

The following servicing tools are required for mechanical and electrical servicing and alignment.

The items marked **“NEW”** in the following list are necessary for the AG-DVX100A and AG-DVC180A.

Please refer to **“Y”** and **“N”** in table below, which tools required for servicing the NTSC and PAL model.

1-1. Summary Table of Servicing Fixtures and Tools

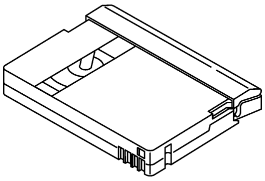
No	Parts No.	NAME	NTSC Model	PAL Model	PURPOSE	REMARK
1	VFM3010EDS	DV Alignment Tape (Color bar)	Y	N	Electrical Adjustment	
2	VFM3110EDS	DV Alignment Tape (Color bar)	N	Y	Electrical Adjustment	
3	VFM3000EDS	DV Alignment Tape (Linearity)	Y	Y	Tape Interchangeability Adjustment	
4	VFK1217	Tape End/Beg Detect Cassette	Y	Y	Sensor Sensitivity Adjustment	
5	*VFK1811B	EVR Adjustment Software	Y	N	PC Electrical Adjustment System	**NEW, NOTE 1** Download from WEB site.
6	*VFK1840A	EVR Adjustment Software	N	Y	PC Electrical Adjustment System	**NEW, NOTE 2** Download from WEB site.
7	*VFK1481K	LISTA Software	Y	Y	LISTA Adjustment	Download from WEB site.
8	VFK1308P	Measuring Board	Y	Y	Test point Board and PC I/F	
9	VFK1309A	EVR Connector Board	Y	Y	Connection for PC Adjustment	**NOTE 3**
10	VFK1694	EVR Extender Board	Y	Y	Connection for PC Adjustment	
11	VJA0941	DC Cable	Y	Y	Power Supply for Measuring Board	
12	VFK1317	30pin Flat Cable	Y	Y	Between Meas. & Con. Boards	
13	VFK1809	72mm Attachment Ring	Y	Y	Camera Adjustment	
14	VFK1164TAR43	43mm Attachment Ring	Y	Y	Camera Adjustment	
15	VFK1164TCM01	Collimator Set (Infinity Lens)	Y	Y	Camera Adjustment	
16	VFK1345	CC Filter Holder	Y	Y	Camera Adjustment	
17	VFK1346	Step Down Ring	Y	Y	Camera Adjustment	
18	VFK1659	Step-Up Ring (43mm-49mm)	Y	Y	Camera Adjustment	
19	VFK1660	Step-Up Ring (49mm-62mm)	Y	Y	Camera Adjustment	
20	VFK1341	CC Filter (LB40)	Y	N	Camera Adjustment	
21	VFK1342	CC Filter (LB80)	N	Y	Camera Adjustment	
22	VFK1347	CC Filter (LB120)	Y	Y	Camera Adjustment	
23	VFK1884	CC Filter (LBA2)	Y	Y	Camera Adjustment	
24	VFK1888	CC Filter (LBB6)	Y	Y	Camera Adjustment	**NOTE 4**
25	VFK1885	CC Filter (LBB2)	Y	N	Camera Adjustment	
26	VFK1886	CC Filter (CC C10)	N	Y	Camera Adjustment	
27	VFK1887	CC Filter (CC C20)	N	Y	Camera Adjustment	
28	VFK1409A	Measuring Board	Y	Y	LISTA Adjustment	**NOTE 5**
29	VFK1233	Mech. Neutral Plate	Y	Y	Mechanical Maintenance	
30	VFK1266	Gear Driver	Y	Y	Mechanical Maintenance	
31	VFK1149B	Post Driver	Y	Y	Tape Post Height Adjustment	
32	VFK1151A	Nut Driver (2.5mm)	Y	Y	Tape Post Height Adjustment	
33	VFK1810	LISTA Measuring Board	Y	Y	LISTA Adjustment	**NOTE 5**
34	VFK1186	LISTA Cable	Y	Y	LISTA Adjustment	
35	MOR265	Morlytone Grease (For Metal)	Y	Y	Mechanical Part Replacement	
36	VFK1300	A/D Converter Board	Y	Y	LISTA Adjustment	

NOTE:

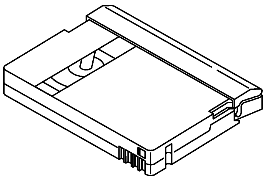
1. VFK1811B can be use for AG-DVX100 and AG-DVC80 EVR adjustment.
2. VFK1840A can be use for AG-DVX100 and AG-DVC180 EVR adjustment.
3. If you already have VFK1309, you can be modified to VFK1309A. (Refer to item “1-1. Modification procedure of VFK1309” in section 4.)
4. The LBB6 is the compatible article of 80D. The cc filter 80D is made by Kodak, which was introduced with the AG-DVX100/DVC80/DVC180 service manual. Being supplying LBB6(VFK1888) as service tool, which is made from Fuji film, either can be used LBB6 and 80D for White Balance (5100K) adjustment.
5. If you already have VFK1409S, it can be use to LISTA adjustment with VFK1810 instead of VFK1409A. (Refer to item “1-6-1. Connection of LISTA Adjustment system” in section 3.)

1 **VFM3010EDS**

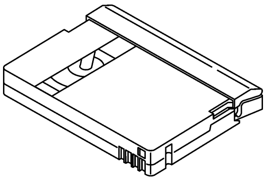
2 **VFM3110EDS**
DV Alignment Tape
(Color bar)



3 **VFM3000EDS**
DV Alignment Tape
(Linearity)



4 **VFK1217**
Tape End / Beg. Detect
Cassette



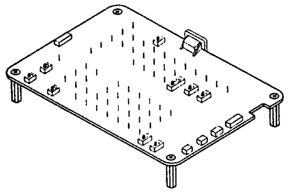
5 **VFK1811B**

6 **VFK1840A**
EVR Adjustment Software

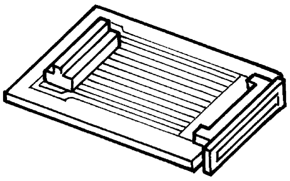
7 **VFK1481K**
LISTA Software

DOWN LOAD

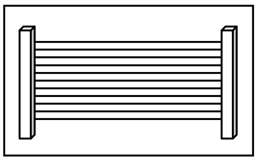
8 **VFK1308P**
Measuring Board



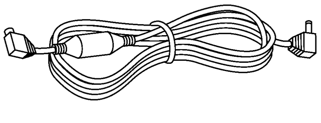
9 **VFK1309A**
EVR Connector Board



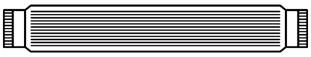
10 **VFK1694**
EVR Extender Board



11 **VJA0941**
DC Cable



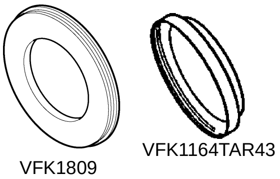
12 **VFK1317**
30pin Flat Cable



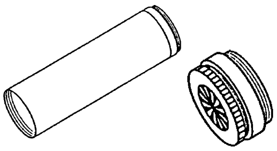
(In case of using VFK1308P, required 2pcs. of this cable)

13 **VFK1809**
72mm Attachment Ring

14 **VFK1164TAR43**
43 mm Attachment Ring

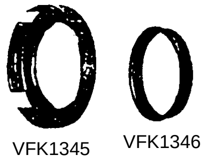


15 **VFK1164TCM01**
Collimator Set
(Infinity Lens)



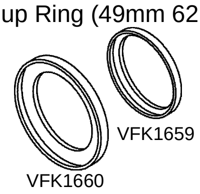
16 **VFK1345**
CC Filter Holder

17 **VFK1346**
Step Down Ring



18 **VFK1659**
Step-up Ring (43mm 49mm)

19 **VFK1660**
Step-up Ring (49mm 62mm)

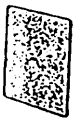


20 **VFK1341** (LB40)

21 **VFK1342** (LB80)

22 **VFK1347** (LB120)

CC Filter



23 **VFK1884** (LBA2)

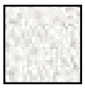
24 **VFK1888** (LBB6)

25 **VFK1885** (LBB2)

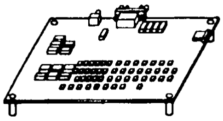
26 **VFK1886** (CC C10)

27 **VFK1887** (CC C20)

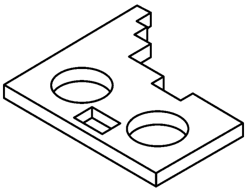
CC Filter



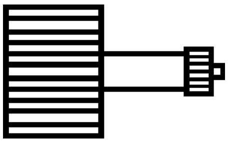
28 **VFK1409A**
Measuring Board



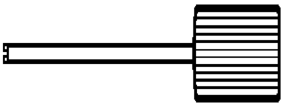
29 **VFK1233**
Mech. Neutral Plate



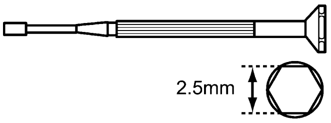
30 **VFK1266**
Gear Driver



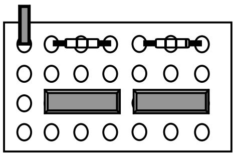
31 **VFK1149B**
Post Driver



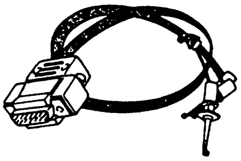
32 **VFK1151A**
Nut Driver (2.5mm)



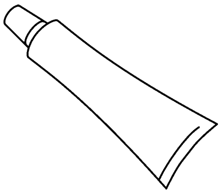
33 **VFK1810**
LISTA Measuring Board



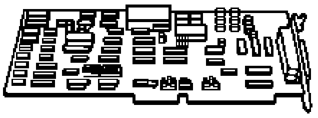
34 **VFK1186**
LISTA Cable



35 **MOR265**
Morlytone Grease
(For Metal)



36 **VFK1300**
A/D Converter Board



In the necessity of each servicing fixtures and tools for which adjustment, refer to the following table.

No.	Parts No.	NAME	ADJUSTMENT ITEM
1	VFM3010EDS	DV Alignment Tape (Color bar)	1-5. Confirmation of the Envelope (SEC.3)
2	VFM3110EDS	DV Alignment Tape (Color bar)	7-2. PG shifter Adjustment (SEC.4)
3	VFM3000EDS	DV Alignment Tape (Linearity)	1-6-4. LISTA Sensitivity Detection (SEC.3)
			1-6-5. LISTA Linearity Adjustment (SEC.3)
4	VFK1217	Tape End/Beg Detect Cassette	7-1. Sensitivity adj. of Tape sensors Adjustment (SEC.4)
5	VFK1811B	EVR Adjustment Software	4. EEPROM (SEC.4)
6	VFK1840A		5. HOUR METER RESET (SEC.4)
			6. CAMERA ADJUSTMENT PROCEDURE (SEC.4)
			7. VTR ADJUSTMENT PROCEDURE (SEC.4)
			8. LCD ADJUSTMENT PROCEDURE (SEC.4)
			9. EVF ADJUSTMENT PROCEDURE (SEC.4)
			10. OTHER ADJUSTMENT PROCEDURE (SEC.4)
7	VFK1481K	LISTA Software	1-6-4. LISTA Sensitivity Detection (SEC.3)
			1-6-5. LISTA Linearity Adjustment (SEC.3)
8	VFK1308P	Measuring Board	1-5. Confirmation of the Envelope (SEC.3)
9	VFK1309A	EVR Connector Board	1-6. LISTA Adjustment Procedures (SEC.3)
10	VFK1694	EVR Extender Board	4. EEPROM (SEC.4)
11	VJA0941	DC Cable	5. HOUR METER RESET (SEC.4)
12	VFK1317	30pin Flat Cable	6. CAMERA ADJUSTMENT PROCEDURE (SEC.4)
			7. VTR ADJUSTMENT PROCEDURE (SEC.4)
			8. LCD ADJUSTMENT PROCEDURE (SEC.4)
			9. EVF ADJUSTMENT PROCEDURE (SEC.4)
			10. OTHER ADJUSTMENT PROCEDURE (SEC.4)
13	VFK1809	72mm Attachment Ring	6-4. Zoom Tracking Adjustment (SEC.4)
			6-5-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
			6-5-3. Cool white(4500K) White Balance Adjustment (SEC.4)
			6-5-4. Warm white(3600K) White Balance Adjustment (SEC.4)
14	VFK1164TAR43	43mm Attachment Ring	6-4. Zoom Tracking Adjustment (SEC.4)
15	VFK1164TCM01	Collimator Set (Infinity Lens)	
16	VFK1345	CC Filter Holder	6-5-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
17	VFK1346	Step Down Ring	6-5-3. Cool white(4500K) White Balance Adjustment (SEC.4)
18	VFK1659	Step-Up Ring (43mm-49mm)	6-5-4. Warm white(3600K) White Balance Adjustment (SEC.4)
19	VFK1660	Step-Up Ring (49mm-62mm)	
20	VFK1341	CC Filter (LB40)	6-5-4. Warm white(3600K) White Balance Adjustment (SEC.4)
21	VFK1342	CC Filter (LB80)	6-5-3. Cool white(4500K) White Balance Adjustment (SEC.4)
22	VFK1347	CC Filter (LB120)	6-5-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
			6-5-3. Cool white(4500K) White Balance Adjustment (SEC.4)
23	VFK1884	CC Filter (LBA2)	6-5-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
24	VFK1888	CC Filter (LBB6)	
25	VFK1885	CC Filter (LBB2)	6-5-4. Warm white(3600K) White Balance Adjustment (SEC.4)
26	VFK1886	CC Filter (CC C10)	
27	VFK1887	CC Filter (CC C20)	6-5-3. Cool white(4500K) White Balance Adjustment (SEC.4)
28	VFK1409A	Measuring Board	1-6-4. LISTA Sensitivity Detection (SEC.3)
			1-6-5. LISTA Linearity Adjustment (SEC.3)
29	VFK1233	Mech. Neutral Plate	1-1. Tension Post & T3 Post Height Adjustment (SEC.3)
			1-2. Tension Post Position Adjustment (SEC.3)
			1-3. Supply & Take-up Reel Table Height Adjustment (SEC.3)
30	VFK1266	Gear Driver	2. MECHANICAL PARTS REPLACEMENT PROCEDURE (SEC.3)
31	VFK1149B	Post Driver	1-1. Tension Post & T3 Post Height Adjustment (SEC.3)
			1-5. Confirmation of the Envelope (SEC.3)
			1-6-5. LISTA Linearity Adjustment (SEC.3)
32	VFK1151A	Nut Driver (2.5mm)	1-1. Tension Post & T3 Post Height Adjustment (SEC.3)
33	VFK1810	LISTA Measuring Board	1-6-4. LISTA Sensitivity Detection (SEC.3)
34	VFK1186	LISTA Cable	1-6-5. LISTA Linearity Adjustment (SEC.3)
35	MOR265	Morlytone Grease (For Metal)	2. MECHANICAL PARTS REPLACEMENT PROCEDURE (SEC.3)
36	VFK1300	A/D Converter Board	1-6-4. LISTA Sensitivity Detection (SEC.3)
			1-6-5. LISTA Linearity Adjustment (SEC.3)

2. MAINTENANCE

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the functions always in the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms uses wear parts, and their wear and deterioration causes troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

2-1. Maintenance Chart

The following periodic maintenance is required to maintain in good condition

No.	Part Name	Part No.	Cleaning	Replacement	Remark
	Tape Transport Part	------	100 hours	------	*1
1	Cylinder Unit	VEG1573	100 hours	Every 1000 hours	
2	Pinch Arm Unit	VXL3161	------	Every 1000 hours	
3	Cleaning Arm Unit	VXL3103	------	Every 1000 hours	
4	Gear Box (Loading Motor Unit)	VXA5417	------	Every 1000 hours	
5	REV Brake Unit	VXZ0441	------	Every 1000 hours	
6	FF Brake Unit	VXZ0322	------	Every 1000 hours	
7	S-Main Brake Unit	VXZ0321	------	Every 1000 hours	
8	T-Main Brake Unit	VXZ0319	------	Every 1000 hours	
9	Supply Reel Table	VXR0355	------	Every 1000 hours	
10	Take-up Reel Table	VXR0356	------	Every 1000 hours	
11	Mode Cam SW Unit	VSR0114	------	Every 1000 hours	
12	Main Cam Gear	VXA5407	------	Every 1000 hours	
13	S1 Boat Unit	VXL3242	------	Every 1000 hours	
14	T1 Boat Unit	VXL3243	------	Every 1000 hours	
15	Tension Arm Unit	VXL3244	------	Every 1000 hours	
16	Pad Arm Unit	VXL2732	------	Every 1000 hours	
17	Mechanism Chassis Unit	VXY1801	------	Every 3000 hours	*2

Note:

Using hours are based on the head rotation hours. (HOUR METER can be confirm on item HOUR METER in OTHER FUNCTION menu.)

Using hours are recommendation. It may depend on temperature, humidity, quality of tape or dust condition.

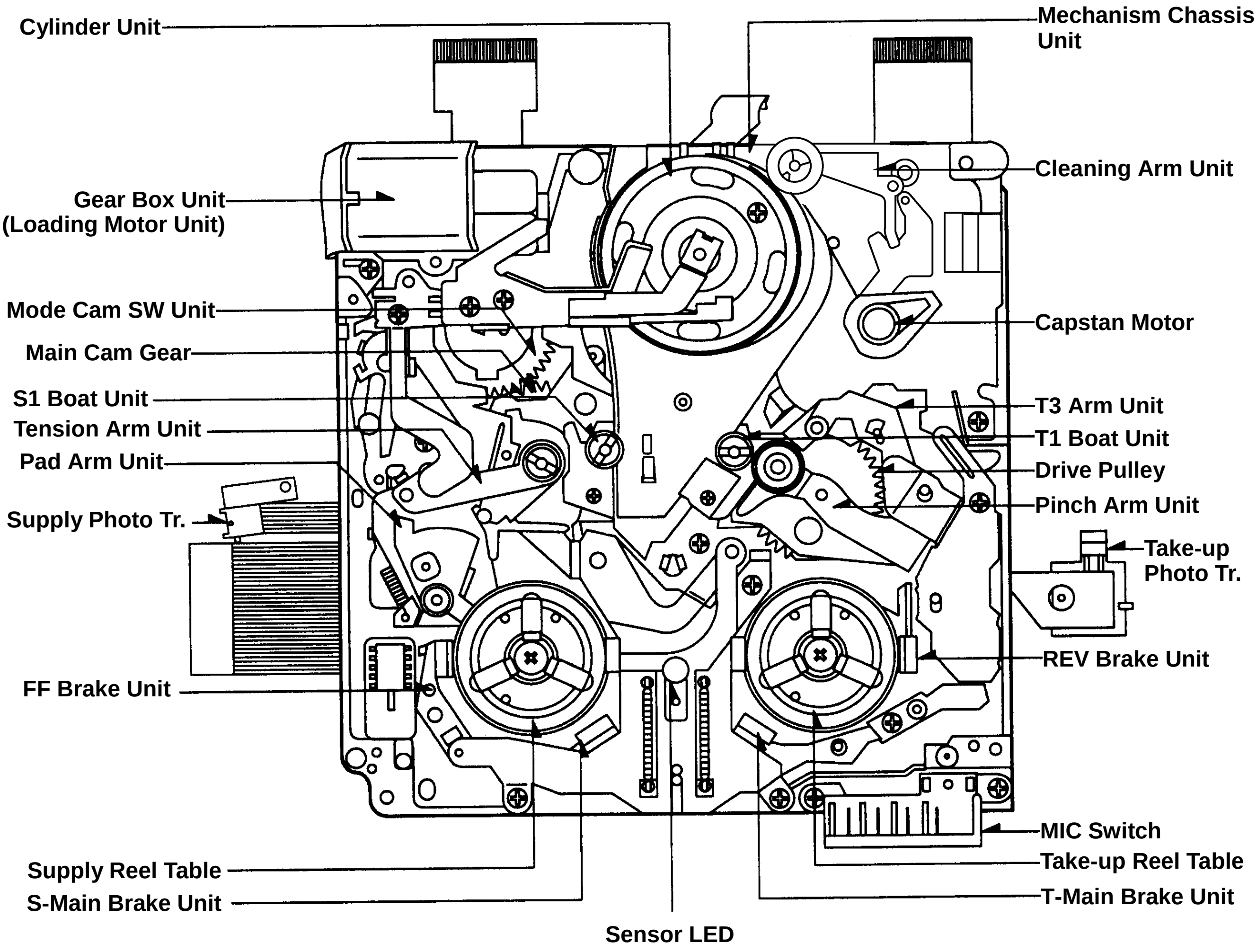
Using hours are listed as the reference of maintenance. They do not mean guarantee hours.

HOUR METER can be reset by EVR software (Refer to item “5. HOUR METER RESET” in section 4.)

*1 Tape transport parts mean following parts.
(Tension Post, S3 Post, S2 Post, S1 Post, Cylinder & Heads,T1 Post, T2 Post, Capstan Shaft, Pinch Roller and T3 Post)

*2 Parts listed from No.1 to 16 are included in Mechanical Chassis Unit. Replacing the Mechanism Chassis Unit is recommended every 3000 hours.

2-2. Mechanical Parts Location


Cylinder Unit
Mechanism Chassis Unit
Gear Box Unit (Loading Motor Unit)
Cleaning Arm Unit
Mode Cam SW Unit
Capstan Motor
Main Cam Gear
S1 Boat Unit
T3 Arm Unit
Tension Arm Unit
T1 Boat Unit
Pad Arm Unit
Drive Pulley
Supply Photo Tr.
Pinch Arm Unit
Take-up Photo Tr.
REV Brake Unit
FF Brake Unit
MIC Switch
Supply Reel Table
Take-up Reel Table
S-Main Brake Unit
T-Main Brake Unit
Sensor LED

3. MANUAL TAPE EJECT (EMERGENCY EJECT)

When the tape cannot be ejected by normal operation because of trouble in the electrical system or mechanical system, the tape can be removed from the unit manually by using the following method.

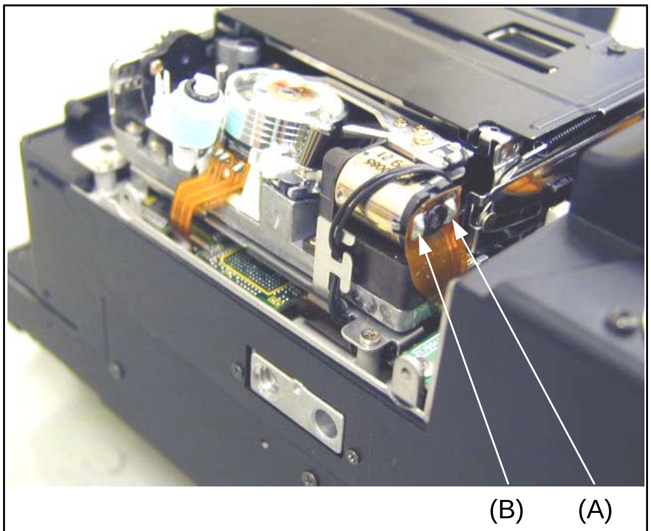
1. Remove the Grip Cover Unit (Refer to item “4. Removal of Grip Cover Unit” in section 2).
2. Supply 4.5 Volts using 3 AA batteries in series to unload the posts using the motor.
3. Stop supplying the power at unloading complete position.

NOTE: If supply the power continuously, the Cassette Up Unit be eject.

4. It has lifted a tape with the finger from the front as shown in the figure and it makes space, it confirms the position of a supply reel. It inserts stick as shown in the figure, it turns a supply reel to counterclockwise from the front and it rolls up a tape.

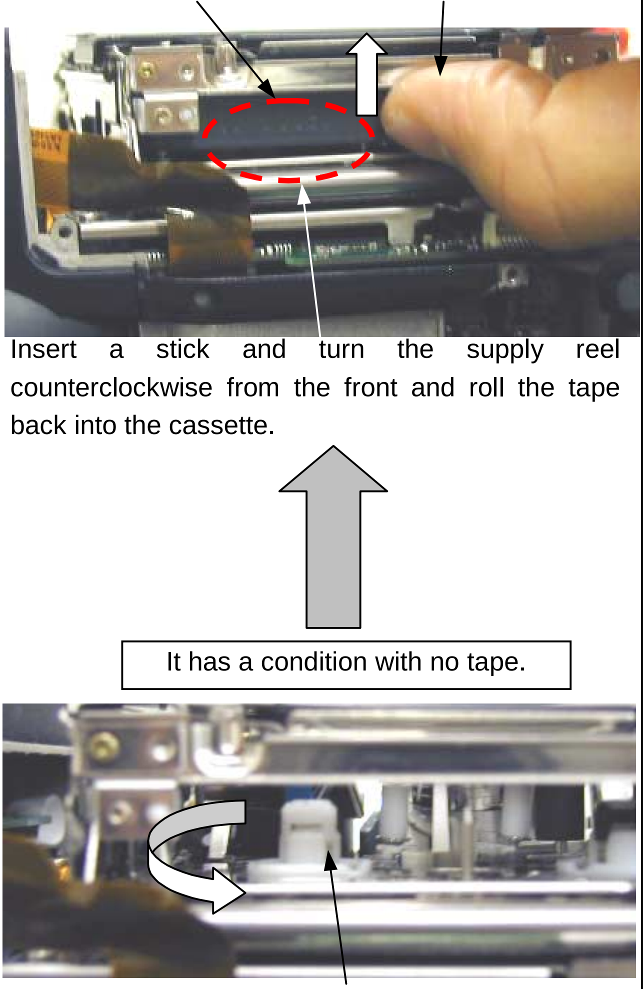
NOTE: Please use the one which doesn't damage the Supply Reel with the non-magnetism type.

5. Push the lock lever to arrow direction as shown in figure 3 to eject the Cassette Up Unit and remove the tape.



UNLOADING .... A: +4.5V B: GND
LOADING .... A: GND B: +4.5V

Figure 1


Confirm the position of the supply reel and lift the tape with your finger

Insert a stick and turn the supply reel counterclockwise from the front and roll the tape back into the cassette.

It has a condition with no tape.

The supply reel base

Turn the supply reel counterclockwise and this will take up the slack in the tape.

Figure 2

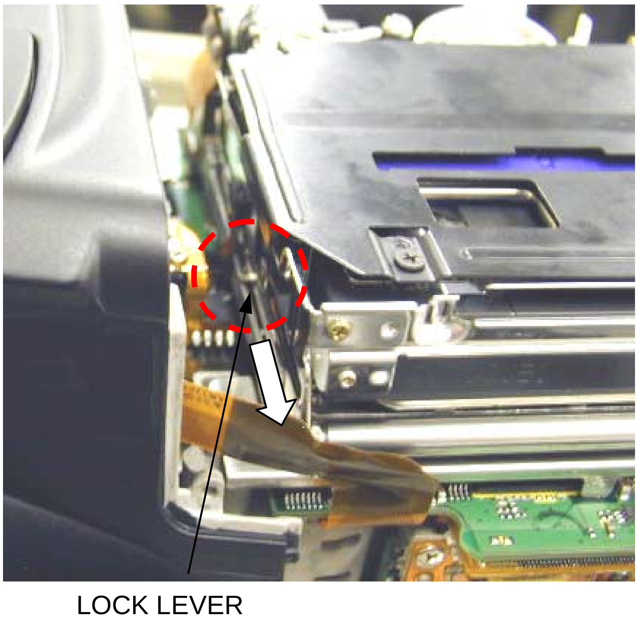


Figure 3

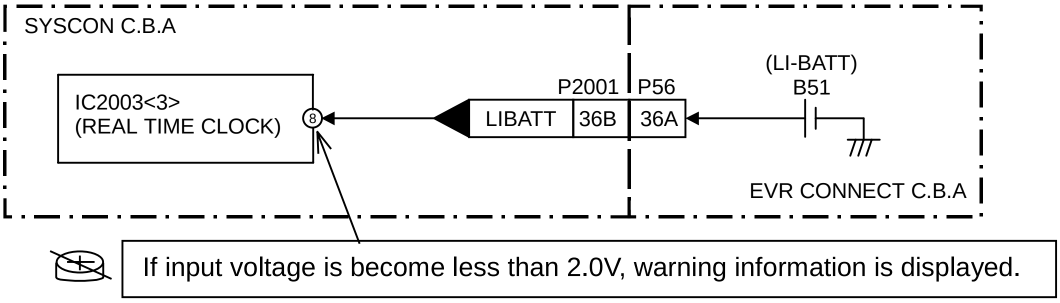
4. LITHIUM BATTERY

4-1. Replacement Procedure

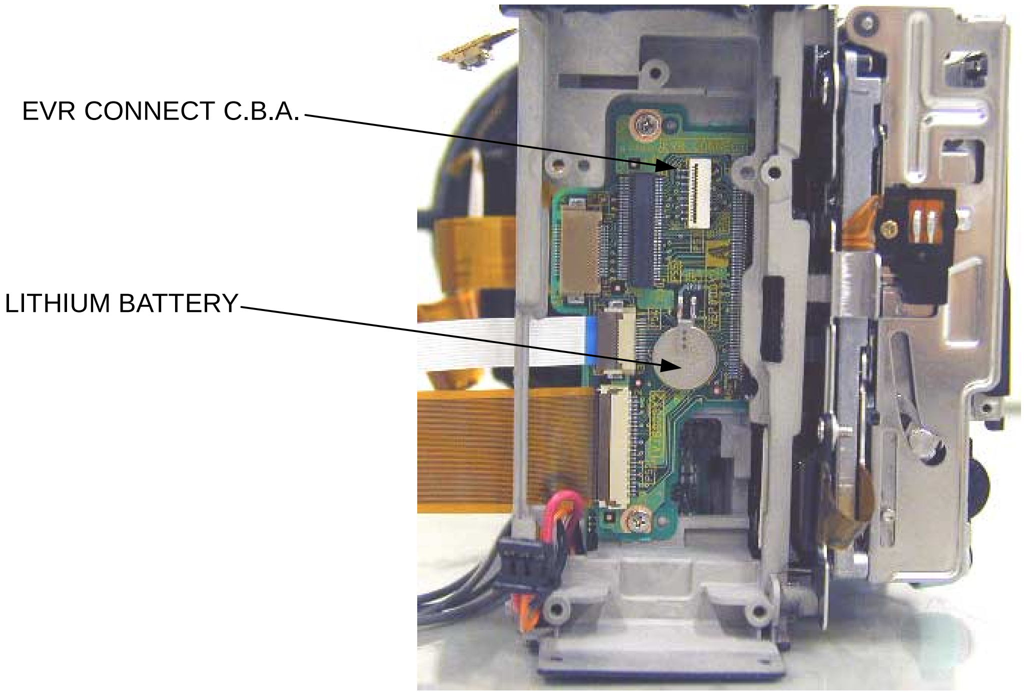
1. Remove the EVR CONNECT C.B.A. (Refer to item “14. Removal of EVR CONNECT C.B.A.” in section 2).
2. Unsolder the Lithium battery “Ref No: B51/Part No: VSB0407” and then replace with the new one.

<INFORMATION>

Lithium battery is charge/discharge type, therefore no require exchange it as maintenance part.



If input voltage is become less than 2.0V, warning information is displayed.



NOTE:

The lithium battery is a critical component.
It must never be subjected to excessive heat of discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

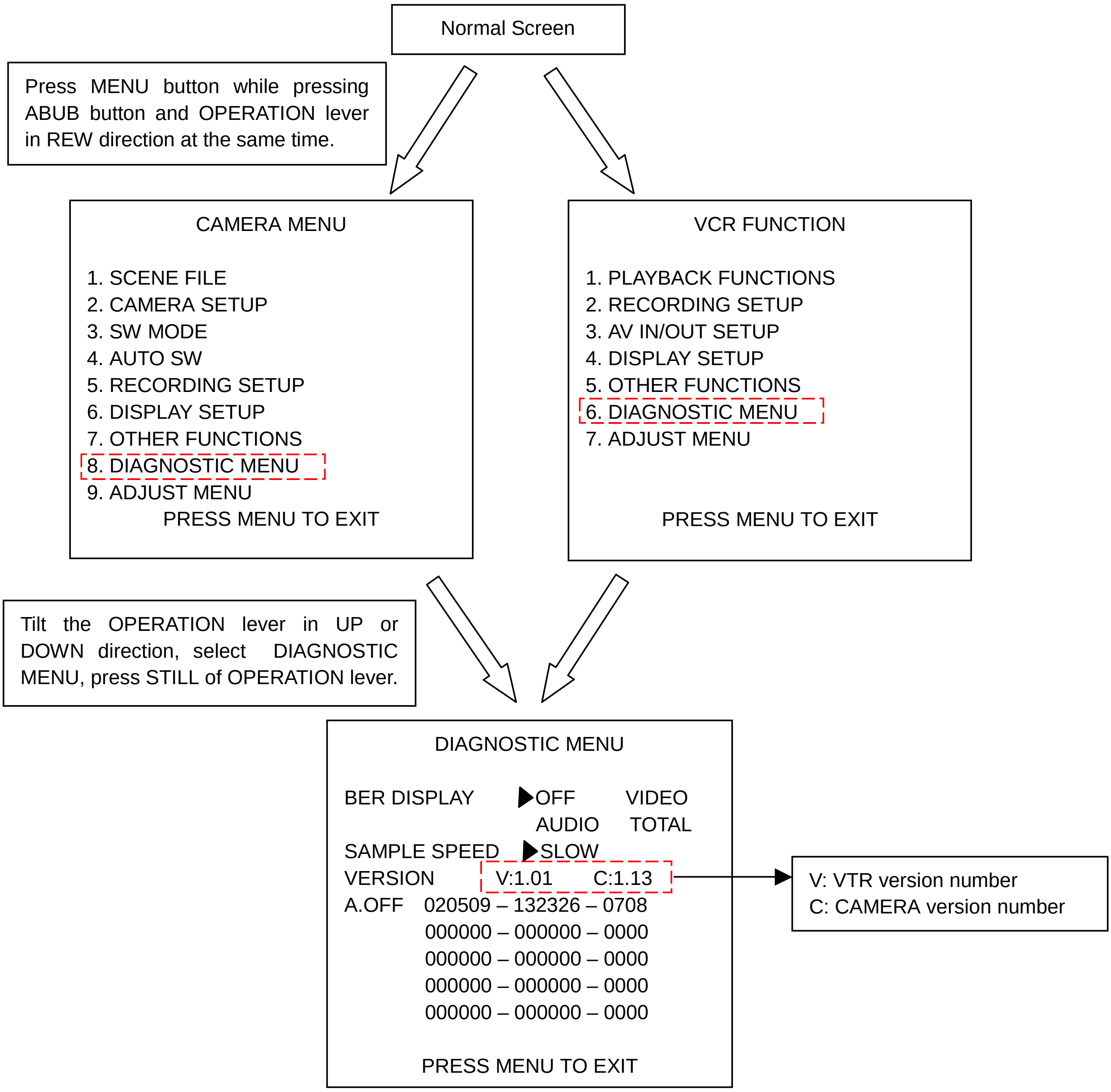
CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacture’s instructions.

5. SERVICE MENU

The DIAGNOSTIC and ADJUST menu can be displayed as follows.

When pressing the MENU button while pressing the ADUB button and the OPERATION lever in REW direction at the same time, DIAGNOSTIC and ADJUST menu can be displayed.
Next, Tilt the OPERATION lever in the UP(▶ :PLAY) or DOWN (■:STOP) direction, select the DIAGNOSTIC or ADJUST menu, press SET(STILL) of the OPERATION lever to open the DIAGNOSTIC or ADJUST menu.



Normal Screen

Press MENU button while pressing ABUB button and OPERATION lever in REW direction at the same time.

```
CAMERA MENU

1. SCENE FILE
2. CAMERA SETUP
3. SW MODE
4. AUTO SW
5. RECORDING SETUP
6. DISPLAY SETUP
7. OTHER FUNCTIONS
8. DIAGNOSTIC MENU
9. ADJUST MENU
        PRESS MENU TO EXIT
```

```
VCR FUNCTION

1. PLAYBACK FUNCTIONS
2. RECORDING SETUP
3. AV IN/OUT SETUP
4. DISPLAY SETUP
5. OTHER FUNCTIONS
6. DIAGNOSTIC MENU
7. ADJUST MENU


        PRESS MENU TO EXIT
```

Tilt the OPERATION lever in UP or DOWN direction, select DIAGNOSTIC MENU, press STILL of OPERATION lever.

```
DIAGNOSTIC MENU

BER DISPLAY     ▶OFF     VIDEO
                 AUDIO    TOTAL
SAMPLE SPEED    ▶SLOW
VERSION          V:1.01    C:1.13
A.OFF   020509 – 132326 – 0708
        000000 – 000000 – 0000
        000000 – 000000 – 0000
        000000 – 000000 – 0000
        000000 – 000000 – 0000

      PRESS MENU TO EXIT
```

V: VTR version number
C: CAMERA version number

5-1. Diagnostic Menu

The DIAGNOSTIC menu is the menu to confirm the condition of the VCR and it is possible to do the confirmation of the error rate, software version and auto off log.

5-1-1. VTR and CAMERA Microprocessor Software Version Display

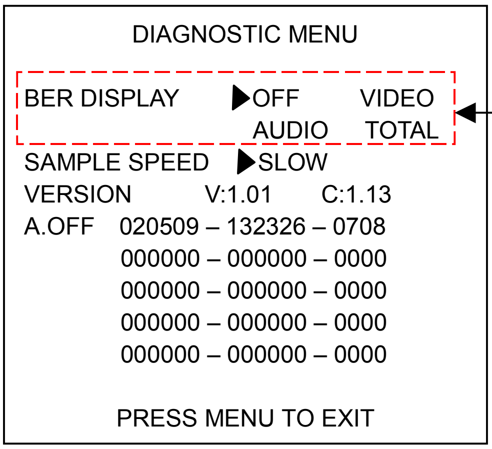
Software version of VTR and CAMERA microprocessor is displayed.

V: 1.**   C: 1.**

Version Number

5-1-2. How to display the Error Rate.

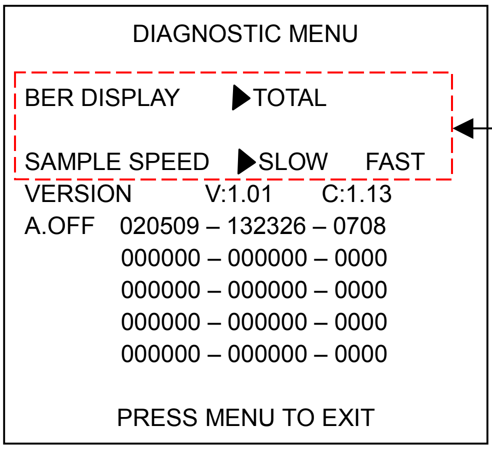
This unit can be displayed Error Rate and it shows the playing condition of the VCR.
In case of the error rate is displayed, BER DISPLAY and SAMPLE SPEED mode is select on DIAGNOSTIC menu.



```
              DIAGNOSTIC MENU

BER DISPLAY        ▶OFF        VIDEO
                    AUDIO      TOTAL
SAMPLE SPEED       ▶SLOW
VERSION         V:1.01      C:1.13
A.OFF    020509 – 132326 – 0708
         000000 – 000000 – 0000
         000000 – 000000 – 0000
         000000 – 000000 – 0000
         000000 – 000000 – 0000

            PRESS MENU TO EXIT
```

Select VIDEO, AUDIO or TOTAL by press STILL button.

After selecting BER DISPLAY mode, move to item of SAMPLE SPEED by press DOWN button.



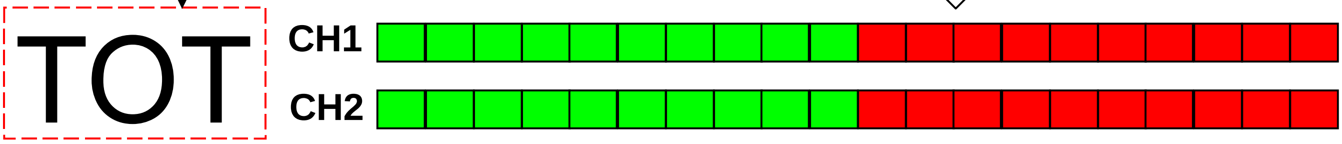
```
              DIAGNOSTIC MENU

BER DISPLAY        ▶TOTAL

SAMPLE SPEED       ▶SLOW       FAST
VERSION         V:1.01      C:1.13
A.OFF    020509 – 132326 – 0708
         000000 – 000000 – 0000
         000000 – 000000 – 0000
         000000 – 000000 – 0000
         000000 – 000000 – 0000

            PRESS MENU TO EXIT
```

For example, in case of selecting TOTAL error display, the display of BER DISPLAY changes like the left figure and is displayed together with FAST in the item of SAMPLE SPEED.

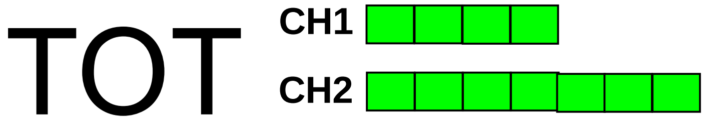
The bar which shows an error rate is displayed in the lower left of the screen when selecting SAMPLE SPEED and returning to the normal screen.

When selecting TOTAL in BER DISPLAY mode, it is displayed “TOT” and if select VIDEO, it is displayed “VID” and if select AUDIO, it is displayed “AUD”.

The colour of the bar
In case of green display: Error rate is good
In case of red display: Error rate is bad



When playback the tape, bar is displayed like the left figure. Change sentence in bottom box to read the less bars displayed the better the error rate.



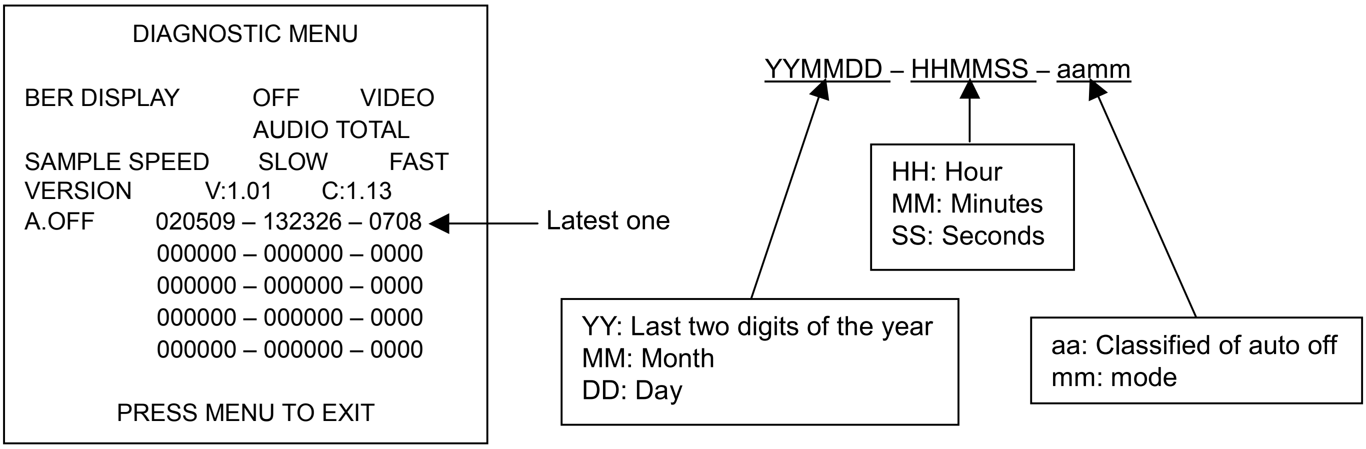
How to confirm the Error rate.

1. Select the TOTAL in item of BER DISPLAY.
2. Record the color bar signal on LP mode and playback the recorded portion. Confirm that the number of bar on display within 10 pieces.

5-1-3. Auto Off Log

The VCR can be displayed warning and auto off as alarm display. In case of the auto off occurred, the number and message are displayed in the normal screen. Contents of auto off can be confirm until previous 5 problem in diagnostic menu.

When auto off occurred, VCR is memorized date, time, classified of auto off and mode follow as below indicated format. Diagnostic menu can be displayed until previous 5 problem.



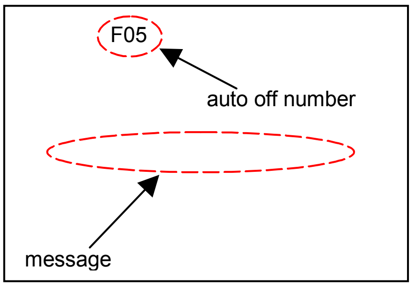
```
            DIAGNOSTIC MENU

BER DISPLAY          OFF       VIDEO
                     AUDIO TOTAL
SAMPLE SPEED         SLOW        FAST
VERSION          V:1.01     C:1.13
A.OFF        020509 – 132326 – 0708
             000000 – 000000 – 0000
             000000 – 000000 – 0000
             000000 – 000000 – 0000
             000000 – 000000 – 0000

         PRESS MENU TO EXIT
```

For example, in case of displayed “020209–132326–0708”, Cylinder Lock occurred in normal playback mode at 13:23:26 on May 9th in 2002.
Please refer to below indicated tables with classification of auto off and mode.

< aa: Classified of AUTO OFF >

aa	Super display	Contents
01	F51	FOCUS MOTOR LOCK
03	F53	PSD NG
07	F05	CYLINDER LOCK
08	F04	LOADING LOCK
09	F03	UNLOADING LOCK
0A	F01	T REEL LOCK
0B	F02	S REEL LOCK

(super position of number and message)



NOTE: FOCUS MOTOR LOCK and PSD NG, which are not AUTO OFF message, it indicated as warning condition.

< mm : MODE >

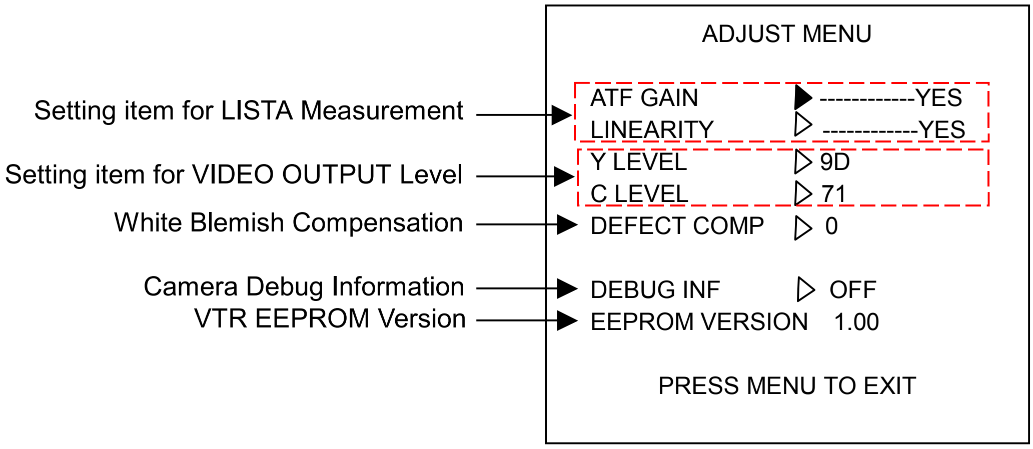
mm	Contents	mm	Contents
01	EJECT	12	AUDIO DUB RECORDING
02	STOP 1(CAMERA mode)	13	CAMERA RECORDING STANDBY
03	STOP 2(VCR mode)	14	CAMERA RECORDING
04	FAST FORWARD	15	CAMERA SEARCH (FORWARD)
05	REWIND	16	CAMERA SEARCH (REVERSE)
06	RECORDING STANDBY	17	REC REVIEW
07	MORMAL RECORDING	18	CAMERA EJECT
08	NORMAL PLAYBACK	1D	CYLINDER OFF
09	REVERSE PLAYBACK	22	SEARCH (FORWARD)
0A	CUE (FAST PLAYBACK)	23	SEARCH (REVERSE)
0B	REVIEW (FAST PLAYBACK)	24	BLANK SEARCH
0C	SLOW PLAYBACK	25	FRAME ADVANCE PLAYBACK
0D	REVERSE SLOW PLAYBACK	26	REVERSE FRAME ADVANCE PLAYBACK
11	AUDIO DUB STANDBY	---	---

<Reference: Detection of Auto Off>

Display	Detection Condition	Detection signal
CYLINDER LOCK	When the cylinder does not rotate after about 1 second from the cylinder is ON mode.	Cylinder FG signal (IC2001-U9)
T REEL LOCK	When the take-up reel does not rotate according to the rotation speed.	T Reel FG signal (IC2001-V5)
S REEL LOCK	When the supply reel does not rotate according to the rotation speed.	S Reel FG signal (IC2001-P7)
LOADING LOCK	When the movement of mechanical position does not completed to move loading direction within regular time. (Ex. FWD → STOP : 7 seconds)	POS1,2 and 3 signal (IC2001-C1,C2,D3)
UNLOADING LOCK	When the movement of mechanical position does not completed to move unloading direction within regular time.	POS1,2 and 3 signal (IC2001-C1,C2,D3)

In all Auto Off mode, CAMERA LED is flashed and the Unit goes to power off automatically after about 1 minutes from problem occurred.

5-2. Adjust Menu



ADJUST MENU

ATF GAIN ▶ ------------YES
LINEARITY ▷ ------------YES
Y LEVEL ▷ 9D
C LEVEL ▷ 71
DEFECT COMP ▷ 0
DEBUG INF ▷ OFF
EEPROM VERSION 1.00

PRESS MENU TO EXIT

Setting item for LISTA Measurement
Setting item for VIDEO OUTPUT Level
White Blemish Compensation
Camera Debug Information
VTR EEPROM Version

5-2-1. Setting item for LISTA Measurement

ATF GAIN

To confirm the ATF sensitivity, change the tape speed.
By pressing SET button, enter the adjustment mode and then exit the menu once. It can be operated VTR operation that the menu mode is exited temporary. In this time, the screen is displayed as follow.

NOW SERVO ADJUST
PUSH MENU TO RETURN

It will be returned to ADJUST MENU when the MENU key is pressed in this condition.

LINEARITY

To confirm the LINEARITY, change the ATF sensitivity.
By pressing SET button, enter the adjustment mode and then exit the menu once. It can be operated VTR operation that the menu mode is exited temporary. In this time, the screen is displayed as follow.

NOW SERVO ADJUST
PUSH MENU TO RETURN

It will be returned to ADJUST MENU when the MENU key is pressed in this condition.

NOTE: ATF GAIN and LINEARITY can not be selected on CAMERA mode.

5-2-2. Adjustment item for Video Level

Y LEVEL
Y level of VIDEO OUTPUT and S-VIDEO OUTPUT signal can be adjusted by value is change on this item.
The displayed value is the same as value for Luminance level adjustment in EVR adjustment.

C LEVEL
C level of VIDEO OUTPUT and S-VIDEO OUTPUT signal can be adjusted by value is change on this item.
The displayed value is the same as value for Chroma level adjustment in EVR adjustment.

5-2-3. White Blemish Compensation

DEFECT COMP
The operation of Median Filter and Address defect compensation can be set ON or OFF by this item DEFECT COMP.
The value set to 0,1,2 or 3 as follows.

Value Method	0	1	2	3
Median filter	ON	ON	OFF	OFF
Address defect compensation	ON	OFF	ON	OFF

Factory default setting is 0.

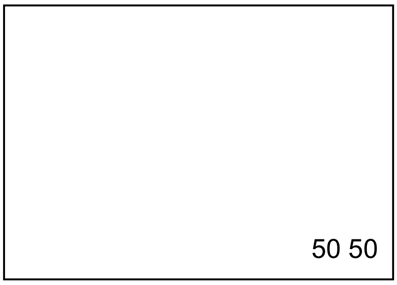
NOTE: CCD White scratch damage revision(EVR ADJ.) can be execute without the relation of above setting.

5-2-4. Camera Debug Information

DEBUG INF
It can be selected ON/OFF that the screen of Camera Debug information.
OFF Not displayed
ON Displayed

Factory default setting is OFF.

Camera Debug information is displayed lower right corner of screen as indicated as below.



NOTE: Basically this information use for designer.

5-2-5. VTR EEPROM Version

EEPROM VERSION
This item is displayed version of VTR EEPROM.

6. CAMERA REMOTE

The control equipment is connected to CAMERA REMOTE jack to enable zooming and record start/stop to be initiated by remote control.

NOTE: CAMERA remote control is only effective CAMERA mode.

Please refer to below indicated specification, in case of external remote performed.

Equivalent circuit of CAM REMOTE jack

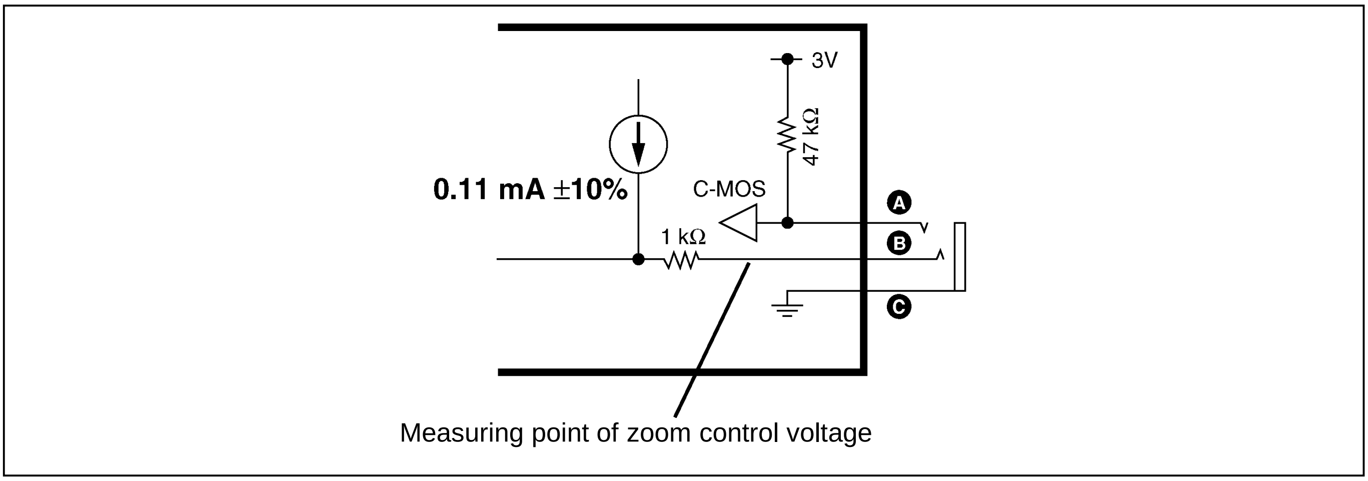


Figure A

Terminal (refer to figure A)	Contents
A	Record start/stop input
B	Zooming control input
C	GND

6-1. Record start / stop input

Every time it connects A terminal with the GND, it repeats recording and a recording stop.

6-2. Zooming control input

With the voltage to input to the B terminal, the zoom speed changes. As for the relation between the zoom control voltage and the zoom speed, it is as shown in the following.

Relation between the zoom control voltage and zoom speed

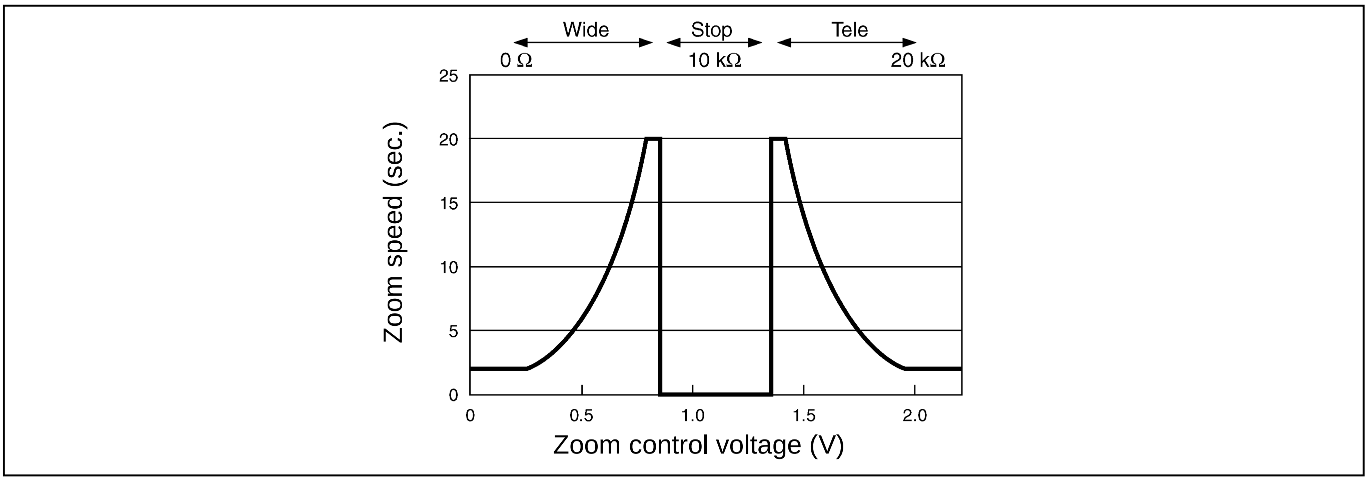


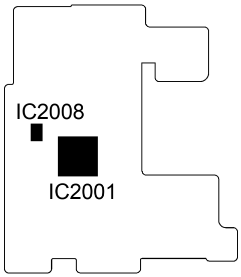
Figure B

7. SOFTWARE

This unit have two pieces of microprocessor and two pieces of EEPROM

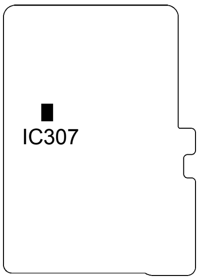
---	Camera board	VTR board
Microprocessor	IC301	IC2001
EEPROM	IC307	IC2008

VTR C.B.A.



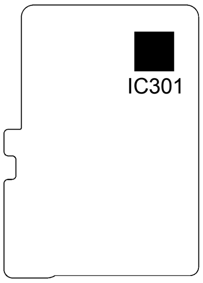
(FOIL SIDE)

CAMERA C.B.A.



(FOIL SIDE)

CAMERA C.B.A.

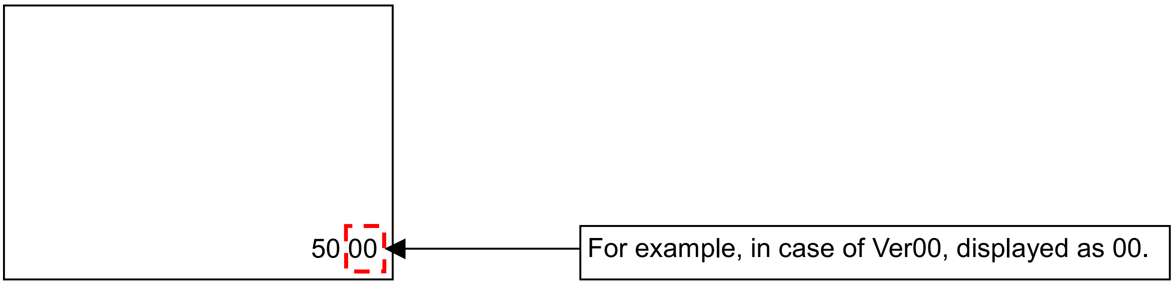


(COMPONENT SIDE)

7-1. Software Version Display

7-1-1. Camera EEPROM Version

1. Press the MENU button while pressing the ADUB button and REW button at the same time, DIAGNOSTIC and ADJUST menu can be displayed (Service menu mode).
2. Open the **“9. ADJUST MENU”**.
3. Select the item **“DEBUG INF”** and set to ON.
4. Press MENU button to move to normal screen from menu screen.
5. Set the GAIN SW to H position.
6. The numerical value, which is indicated as version. It display on lower right corner as indicated as below.



For example, in case of Ver00, displayed as 00.

7-1-2. VTR EEPROM Version

VTR EEPROM version is displayed on ADJUST menu (refer to item 5-2-5 on page INF-12).

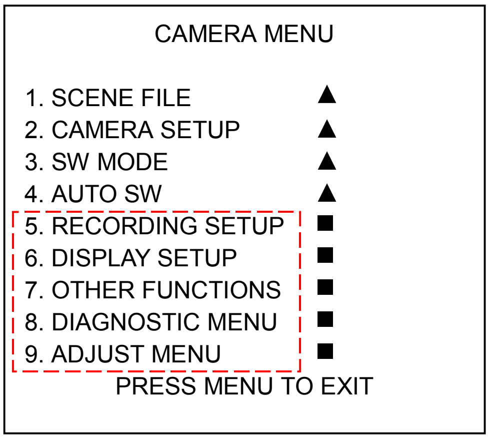
7-1-3. VTR & CAMERA Microprocessor Software Version

VTR and CAMERA microprocessor software version is displayed on DIAGNOSTIC menu (refer to item 5-1-1 on page INF-8).

7-2. EEPROM Data

Several information are stored in EEPROM. Please refer to below explanation, which data stored in EEPROM.

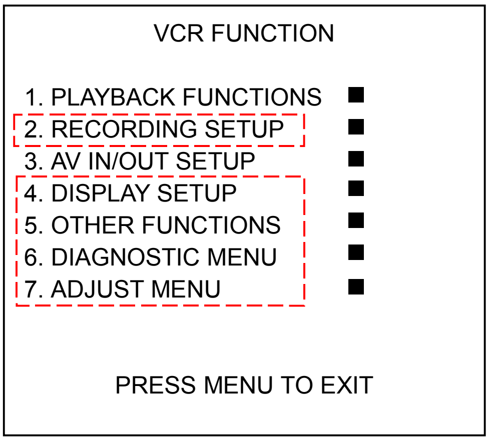
7-2-1. Setting menu data



CAMERA MENU

1. SCENE FILE ▲
2. CAMERA SETUP ▲
3. SW MODE ▲
4. AUTO SW ▲
5. RECORDING SETUP ■
6. DISPLAY SETUP ■
7. OTHER FUNCTIONS ■
8. DIAGNOSTIC MENU ■
9. ADJUST MENU ■

PRESS MENU TO EXIT



VCR FUNCTION

1. PLAYBACK FUNCTIONS ■
2. RECORDING SETUP ■
3. AV IN/OUT SETUP ■
4. DISPLAY SETUP ■
5. OTHER FUNCTIONS ■
6. DIAGNOSTIC MENU ■
7. ADJUST MENU ■

PRESS MENU TO EXIT

⬚ Common display items

■ : Each setting value are stored in VTR EEPROM.
▲ : Each setting value are stored in CAMERA EEPROM.
NOTE: The item “Aspect CONV” in CAMERA SETUP screen, which is stored in VTR EEPROM.

7-2-2. The other data

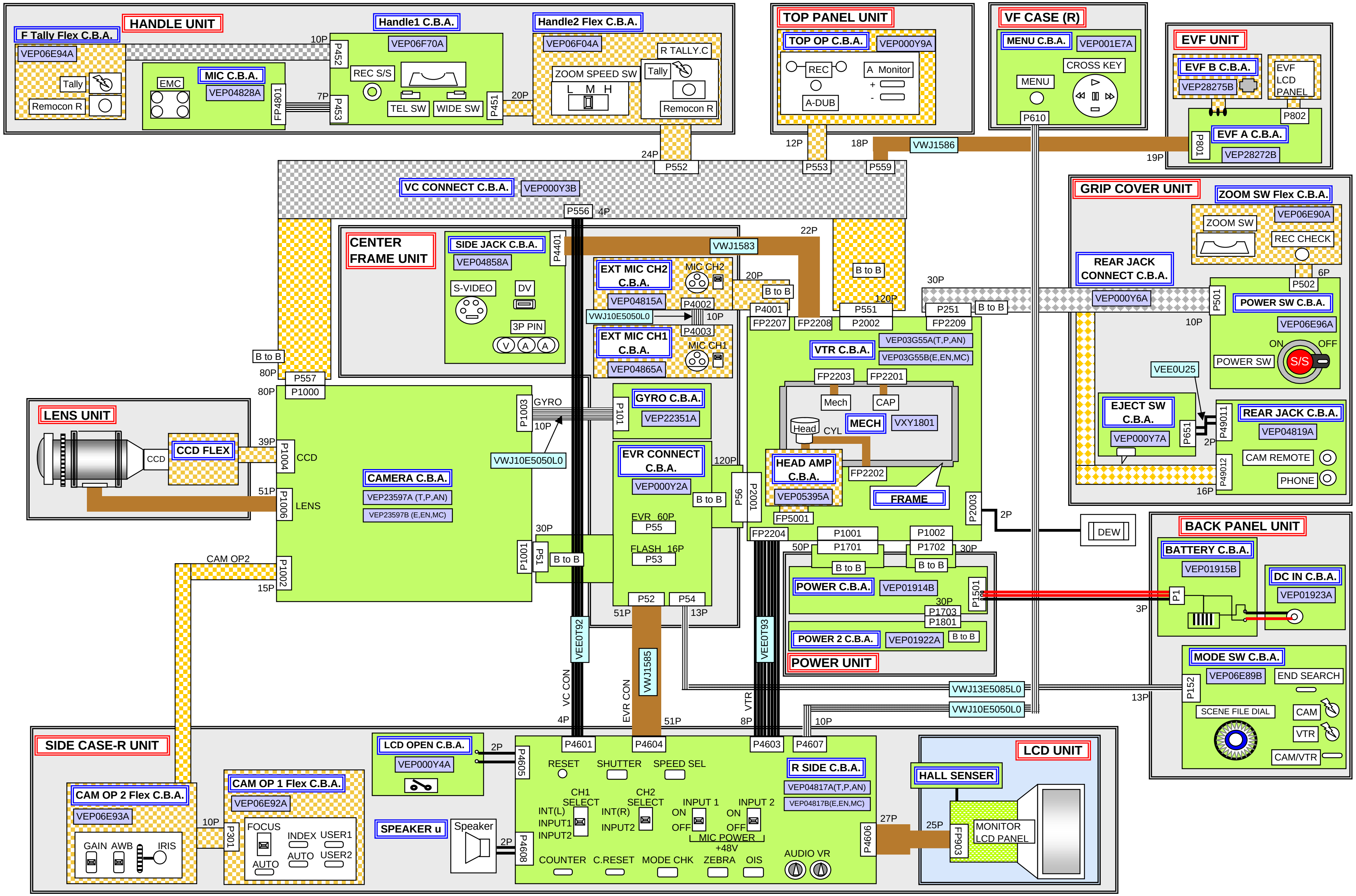
Except setting menu data, below indicated information are stored in EEPROM.

EEPROM	INFORMATION	REMARK
CAMERA EEPROM	CAMERA adjustment value	Adjustment values are set by EVR software.
	Control data	-------------------
VTR EEPROM	VTR,LCD and EVF adjustment Value	Adjustment values are set by EVR software.
	HOUR METER	-------------------
	Time code data	-------------------
	AUTO OFF LOG	-------------------
	Control data	-------------------

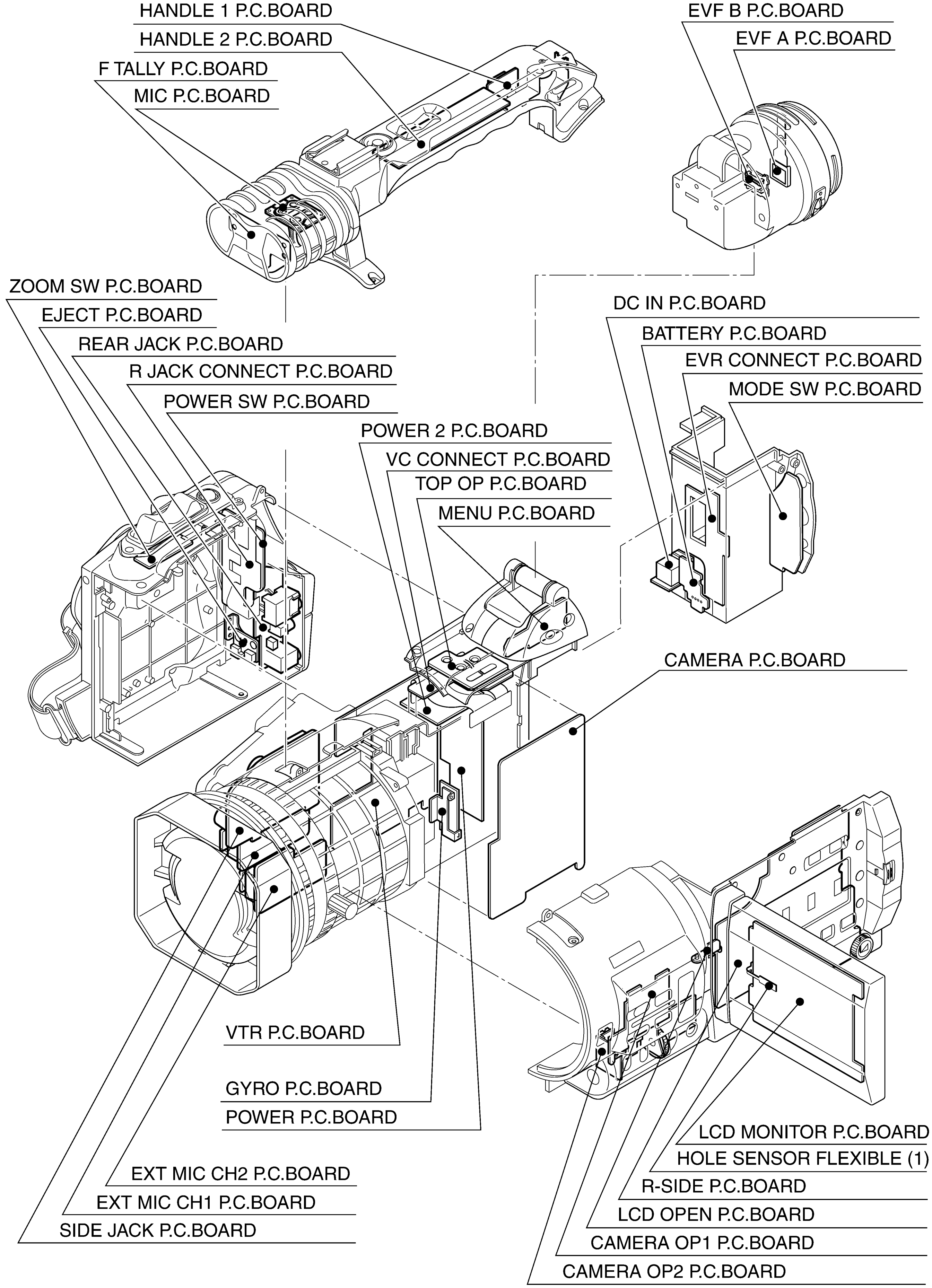
7-3. EEPROM Version Upgrade

EEPROM data can be up-graded by the EVR software (VFK1811B) as same as Electrical Adjustment.
Regarding the connection of some equipment and setting procedure when using the EVR software, please refer to the item “1. ADJUSTMENT SYSTEM” in section 4 on this manual. With EEPROM upgrade procedure, please refer to item “4-4.EEPROM Data Upgrade Procedure” in section 4 on this Service Manual.

INTERCONNECTION


HANDLE UNIT
F Tally Flex C.B.A.
VEP06E94A
Tally
Remocon R
EMC
MIC C.B.A.
VEP04828A
FP4801
7P
10P
Handle1 C.B.A.
VEP06F70A
P452
P453
REC S/S
TEL SW
WIDE SW
P451
20P
Handle2 Flex C.B.A.
VEP06F04A
R TALLY.C
ZOOM SPEED SW
L M H
Tally
Remocon R
24P
TOP PANEL UNIT
TOP OP C.B.A.
VEP000Y9A
REC
A-DUB
A Monitor
+
-
12P
18P
VF CASE (R)
MENU C.B.A.
VEP001E7A
CROSS KEY
MENU
P610
VWJ1586
EVF UNIT
EVF B C.B.A.
VEP28275B
EVF LCD PANEL
P802
P801
EVF A C.B.A.
VEP28272B
19P
P552
P553
P559
VC CONNECT C.B.A.
VEP000Y3B
P556
4P
22P
VWJ1583
CENTER FRAME UNIT
SIDE JACK C.B.A.
VEP04858A
P4401
S-VIDEO
DV
3P PIN
V A A
EXT MIC CH2 C.B.A.
VEP04815A
MIC CH2
20P
B to B
P4002
VWJ10E5050L0
10P
P4003
EXT MIC CH1 C.B.A.
VEP04865A
MIC CH1
B to B
120P
30P
P4001
P551
P251
B to B
FP2207
FP2208
P2002
FP2209
VEP03G55A(T,P,AN)
VEP03G55B(E,EN,MC)
VTR C.B.A.
FP2203
FP2201
Mech
CAP
Head
CYL
MECH
VXY1801
HEAD AMP C.B.A.
VEP05395A
FP2202
FRAME
FP5001
P2003
2P
DEW
B to B
80P
P557
80P
P1000
GYRO
P1003
10P
P101
GYRO C.B.A.
VEP22351A
VWJ10E5050L0
EVR CONNECT C.B.A.
VEP000Y2A
120P
B to B
P56
P2001
EVR 60P
P55
FLASH 16P
P53
30P
P1001
P51
B to B
P52
P54
51P
13P
CAMERA C.B.A.
VEP23597A (T,P,AN)
VEP23597B (E,EN,MC)
LENS UNIT
CCD FLEX
CCD
39P
P1004
CCD
51P
P1006
LENS
CAM OP2
P1002
15P
FP2204
P1001
P1002
50P
P1701
P1702
30P
B to B
B to B
POWER C.B.A.
VEP01914B
30P
P1703
P1801
P1501
POWER 2 C.B.A.
VEP01922A
B to B
POWER UNIT
VEE0T92
VWJ1585
VEE0T93
VC CON
EVR CON
VTR
4P
51P
8P
10P
VWJ13E5085L0
VWJ10E5050L0
13P
GRIP COVER UNIT
ZOOM SW Flex C.B.A.
VEP06E90A
ZOOM SW
REC CHECK
6P
P502
REAR JACK CONNECT C.B.A.
VEP000Y6A
P501
POWER SW C.B.A.
VEP06E96A
10P
ON
OFF
S/S
POWER SW
VEE0U25
EJECT SW C.B.A.
VEP000Y7A
P651
P49011
2P
REAR JACK C.B.A.
VEP04819A
CAM REMOTE
P49012
PHONE
16P
BACK PANEL UNIT
BATTERY C.B.A.
VEP01915B
DC IN C.B.A.
VEP01923A
P1
3P
MODE SW C.B.A.
VEP06E89B
END SEARCH
P152
SCENE FILE DIAL
CAM
VTR
CAM/VTR
SIDE CASE-R UNIT
CAM OP 2 Flex C.B.A.
VEP06E93A
GAIN AWB
IRIS
10P
CAM OP 1 Flex C.B.A.
VEP06E92A
P301
FOCUS
INDEX USER1
AUTO USER2
AUTO
LCD OPEN C.B.A.
VEP000Y4A
2P
SPEAKER u
Speaker
2P
P4605
P4608
P4601
P4604
P4603
P4607
RESET
SHUTTER
SPEED SEL
CH1 SELECT
CH2 SELECT
INPUT 1
INPUT 2
INT(L)
INPUT1
INPUT2
INT(R)
INPUT2
ON
OFF
ON
OFF
MIC POWER
+48V
COUNTER
C.RESET
MODE CHK
ZEBRA
OIS
AUDIO VR
R SIDE C.B.A.
VEP04817A(T,P,AN)
VEP04817B(E,EN,MC)
P4606
27P
LCD UNIT
HALL SENSER
25P
FP903
MONITOR LCD PANEL

9. CIRCUIT BOARD LAYOUT


HANDLE 1 P.C.BOARD
HANDLE 2 P.C.BOARD
F TALLY P.C.BOARD
MIC P.C.BOARD
EVF B P.C.BOARD
EVF A P.C.BOARD
ZOOM SW P.C.BOARD
EJECT P.C.BOARD
REAR JACK P.C.BOARD
R JACK CONNECT P.C.BOARD
POWER SW P.C.BOARD
DC IN P.C.BOARD
BATTERY P.C.BOARD
EVR CONNECT P.C.BOARD
MODE SW P.C.BOARD
POWER 2 P.C.BOARD
VC CONNECT P.C.BOARD
TOP OP P.C.BOARD
MENU P.C.BOARD
CAMERA P.C.BOARD
VTR P.C.BOARD
GYRO P.C.BOARD
POWER P.C.BOARD
EXT MIC CH2 P.C.BOARD
EXT MIC CH1 P.C.BOARD
SIDE JACK P.C.BOARD
LCD MONITOR P.C.BOARD
HOLE SENSOR FLEXIBLE (1)
R-SIDE P.C.BOARD
LCD OPEN P.C.BOARD
CAMERA OP1 P.C.BOARD
CAMERA OP2 P.C.BOARD

SECTION 2

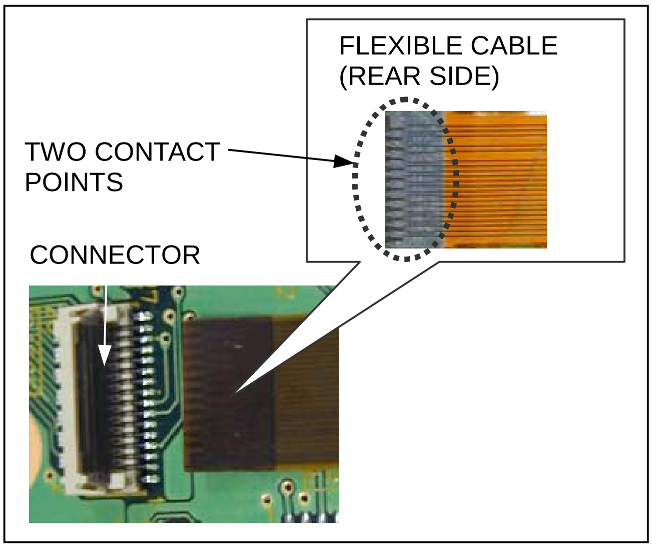
DISASSEMBLY PROCEDURES

CONTENTS

1. Note when inserting Flexible Cable DIS-1
2. Type of screws DIS-1
3. Removal of Top Panel Unit DIS-2
4. Removal of Grip Cover Unit DIS-3
5. Removal of Mechanism Unit DIS-4
6. Removal of VTR C.B.A. DIS-4
7. Removal of Handle Unit DIS-5
8. Removal of EVF Unit DIS-5
9. Removal of Side Case (R) Unit DIS-6
10. Removal of LCD Unit DIS-7
11. Removal of CAMERA C.B.A. DIS-8
12. Removal of Lens Unit DIS-8
13. Removal of Back Panel Unit DIS-9
14. Removal of EVR CONNECT C.B.A. DIS-9

1. Note when inserting Flexible Cable

There are five flexible cables, which have two sets of contacts on each cable, see the figure below. When inserting these cables into the connector, make sure that the cables are fully inserted, if not they may damage the connector.



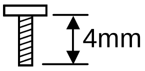
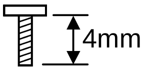
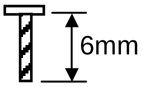
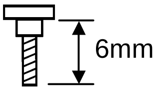
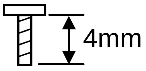
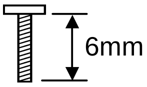
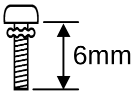
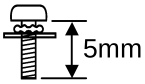
P52 on EVR CONNECT C.B.A.
P4604 and P4606 on R_SIDE C.B.A.
P1004 and P1006 on CAMERA C.B.A.

CCD ←→ P1004
LENS ←→ P1005
LCD Unit ←→ P4606
P52 (EVR CONNECT C.B.A.) ←→ P4604 (R_SIDE C.B.A.)

When P1004 flexible cable is not making correct contact, the camera's picture will not be seen.
When P1005 flexible cable is not making correct contact, the LENS will not operate.
When P4606 flexible cable is not making correct contact, the LCD Panel will not operate.
When P52 or P4604 flexible cable is not making correct contact, the VTR will not operate.
If any of the above symptoms occur after you assemble the camera recorder, please check the indicated connector.

2. Type of Screws

As for this procedure, a screw is described by the alphabet. The specified screw, refer to the table below about any type. When constructive, be careful not to mistake to put a screw.

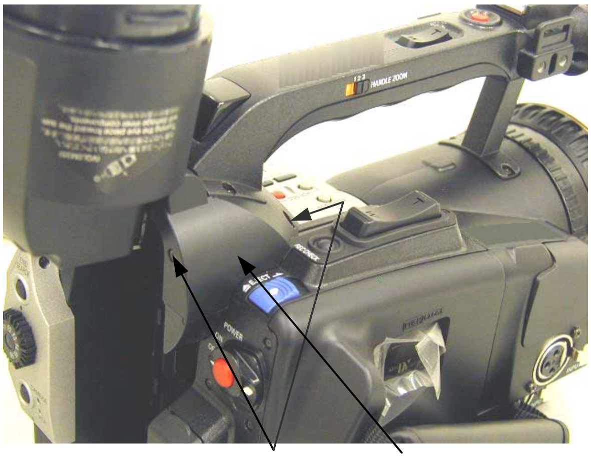
TYPE	Figure	Apply to screw
A	 BLACK	A, B, C, D, E, K, L, M, P, Y
B	 SILVER	H, I, J, N, O, V, W, Z
C	 BLACK	F
D	 SILVER	G
E	 BLACK	R
F	 GOLD	T
G	 GOLD	G
H	 GOLD	S

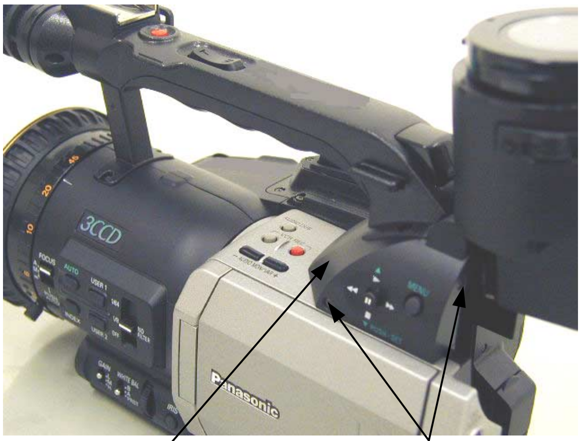
3. Removal of Top Panel Unit

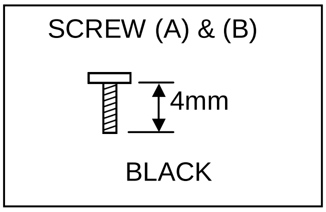
1. Unscrew the 2 screws (A) and remove the VF CASE (L).
2. Unscrew the 2 screws (B) and disconnect a connector P610 on MENU C.B.A., then remove the VF CASE R UNIT.
3. Unscrew 3 screws (C) and (D).

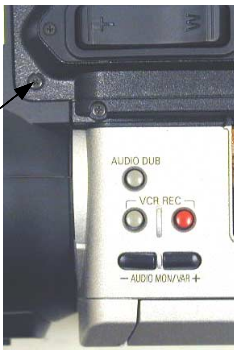
NOTE:
When unscrew the screw (D), set the LCD Panel to downward to protect damage on face of LCD.

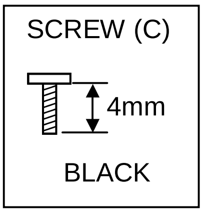
4. Disconnect a connector P553 on VC CONNECT C.B.A. and remove the Top Panel Unit.


SCREWS (A)
VF CASE (L)

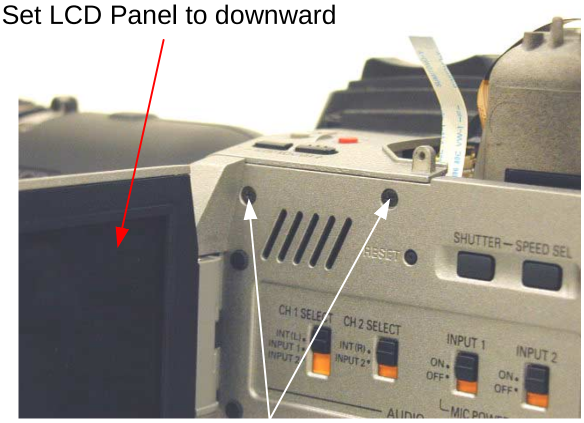

VF CASE R UNIT
SCREWS (B)

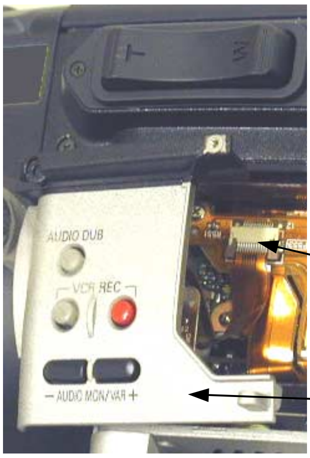

SCREW (A) & (B)
4mm
BLACK

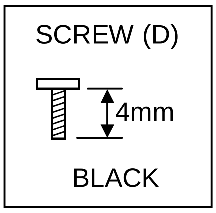



SCREW (C)
4mm
BLACK

Set LCD Panel to downward



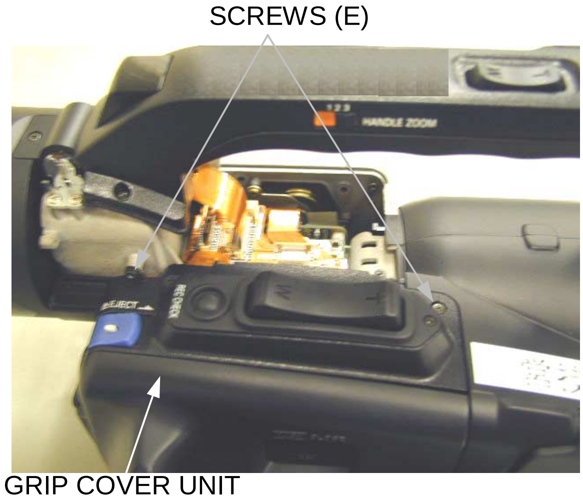

P553
TOP PANEL UNIT

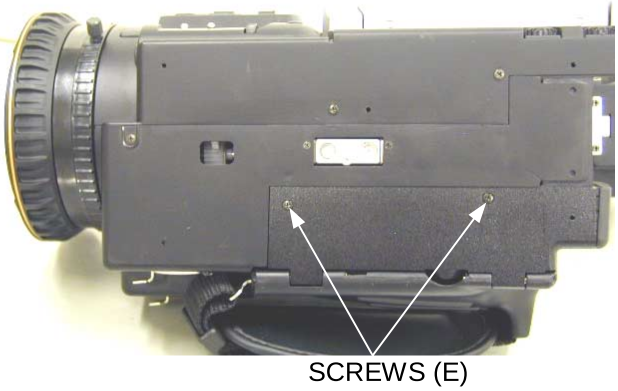

SCREW (D)
4mm
BLACK

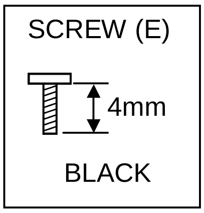
4. Removal of Grip Cover Unit

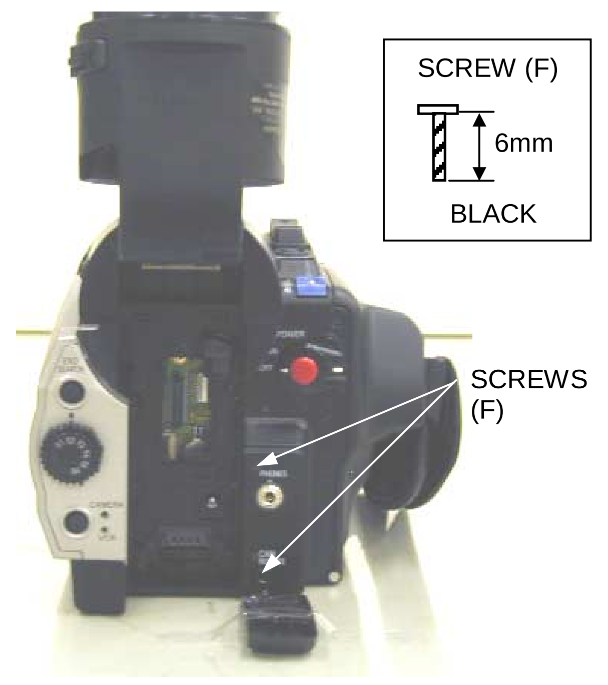
1. Remove the Top Panel Unit.
2. Unscrew the 4 screws (E) and unscrew the 2 screws (F).
3. Disconnect a connector (A) on VTR C.B.A. and remove the Grip Cover Unit.

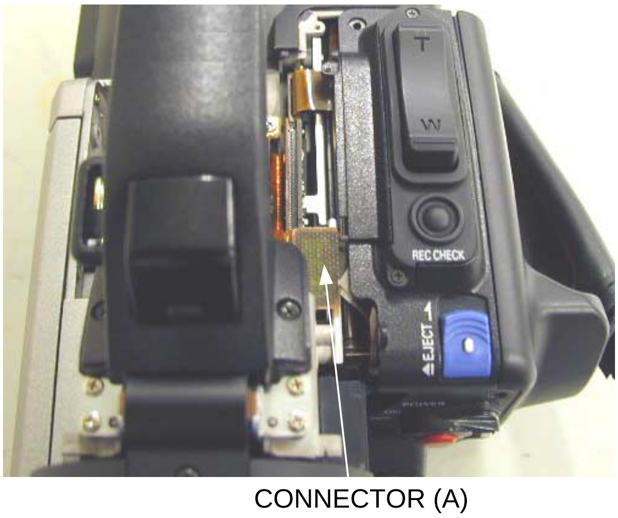
NOTE:
Be careful when connect or disconnect the connector (A), because it have possibility give damages to connector when inserting or removing in the impossible doing.


SCREWS (E)
GRIP COVER UNIT




SCREW (E)
4mm
BLACK


SCREW (F)
6mm
BLACK
SCREWS (F)


CONNECTOR (A)

NOTE: Be careful when connect or disconnect the connector (A), because it have possibility give damages to connector when inserting or removing in the impossible doing.

5. Removal of Mechanism Unit

1. Remove the Grip Cover Unit.
2. Disconnect 2 connectors (A) and (B) on VTR C.B.A.
3. Unscrew the 2 screws (G).
4. Disconnect a connector (C) on VTR C.B.A.

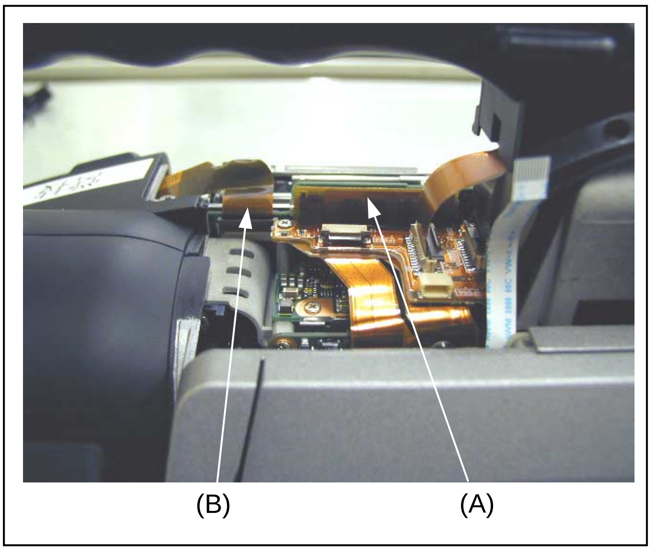
NOTE:
Do not forget unscrew the screw (G), when disconnect a connector (C) and be careful so as not to give a damage to connector (C).

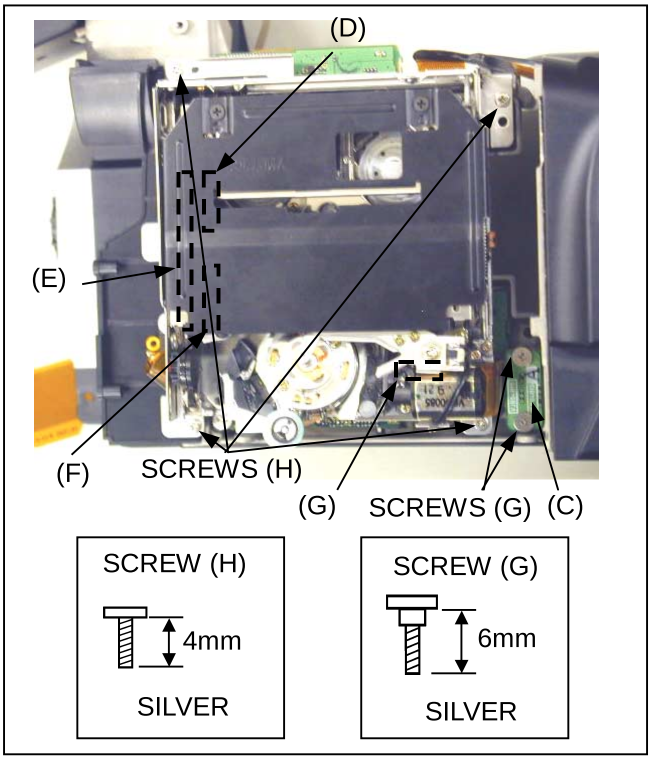
5. Unscrew the 4 screws (H) and remove the Mechanism Unit.

NOTE:
When remove the Mechanism Unit, the connector (D),(E) and (F) on VTR C.B.A are disconnected from POWER and EVR CONNECT C.B.A. When remove the Mechanism Unit, While having VTR C.B.A with the hand, it removes a Mechanism Unit (If only having Mechanism Unit with the hand, it have possibility give warp to Mecha chassis). Also do not give damage to Cleaning roller. Check the connector has been connected securely when the Mechanism Unit is installed.

6. Disconnect a connector (G) on VTR C.B.A.

NOTE:
When installing a mechanism unit, make the condition which closed the lid of the connector (B) on the VTR C.B.A.

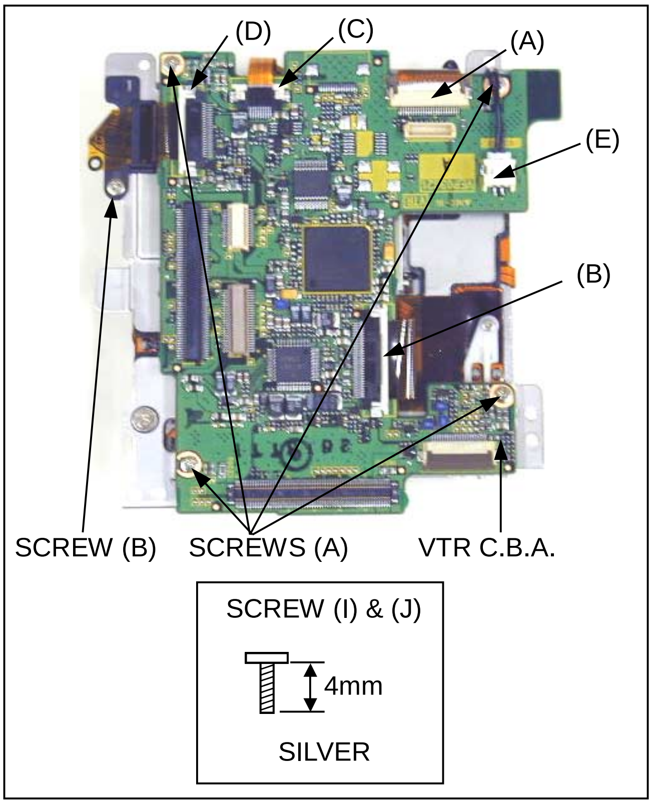




6. Removal of VTR C.B.A.

1. Remove the Mechanism Unit.
2. Disconnect 5 connectors (A), (B), (C), (D) and (E) on VTR C.B.A.
3. Unscrew the 4 screws (I) and remove the VTR C.B.A..

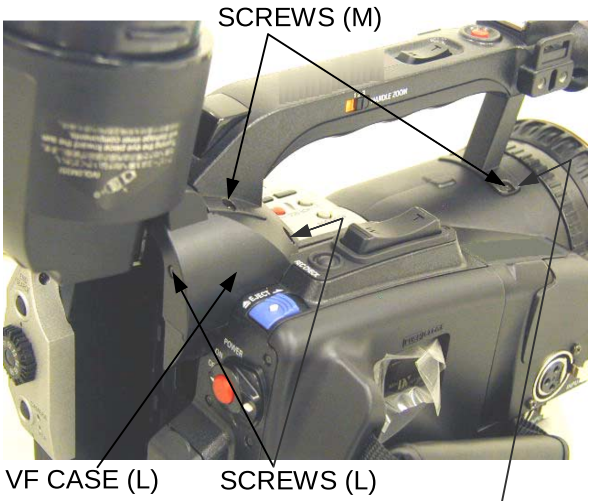
NOTE:
When inserting a connector (D) the connector is easy to insert when removing screw (J).



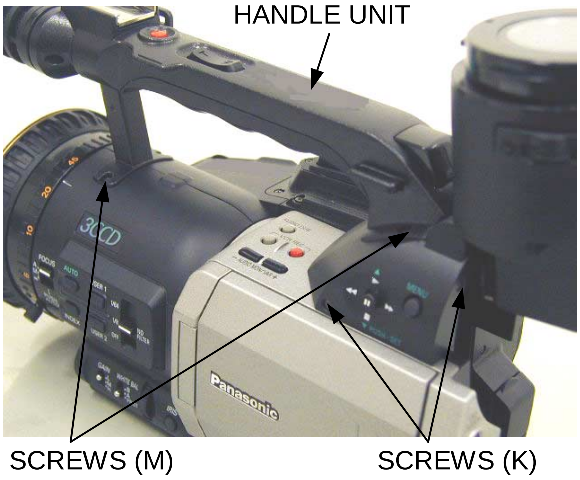
7. Removal of Handle Unit

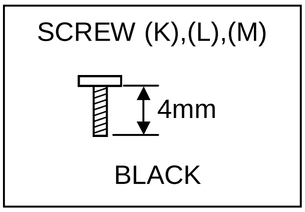
1. Unscrew the 2 screws (K) and disconnect a connector P610 on MENU C.B.A., then remove the VF CASE R UNIT.
2. Unscrew the 2 screws (L) and remove the VF CASE (L).
3. Disconnect a connector P552 on VC CONNECT C.B.A.
4. Unscrew the 4 screws (M) and remove the Handle Unit.

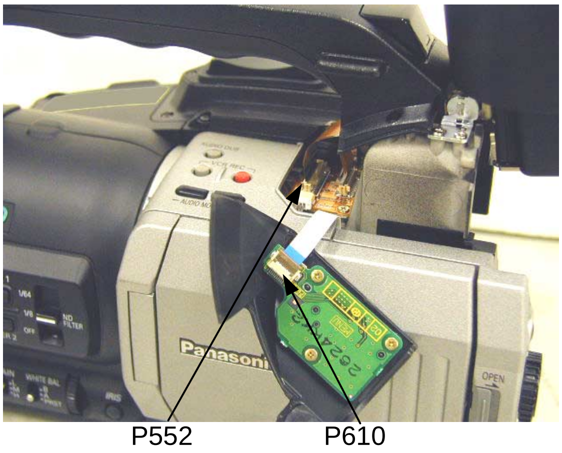
NOTE:
Be careful so as not for the installation part in front of the handle to run onto the frame in Handle Unit installation.


SCREWS (M)
VF CASE (L)
SCREWS (L)

NOTE: Be careful when connect or disconnect the connector (A), because it have possibility give damages to connector when inserting or removing in the impossible doing.

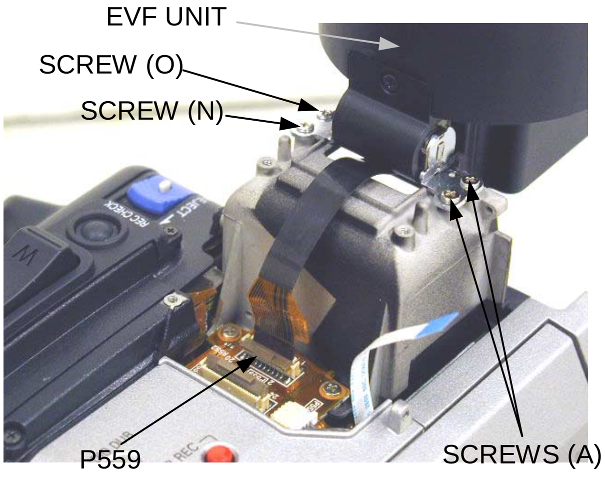

HANDLE UNIT
SCREWS (M)
SCREWS (K)

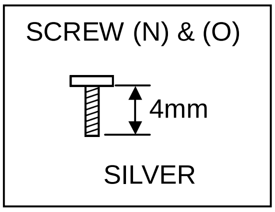

SCREW (K),(L),(M)
4mm
BLACK



8. Removal of EVF Unit

1. Remove the Handle Unit.
2. Unscrew the 3 screws (N) and disconnect a connector P559 on VC CONNECT C.B.A..
3. Make the condition which lift up the EVF Unit as shown figure and unscrew the 1 screw (O), then remove the EVF Unit.


EVF UNIT
SCREW (O)
SCREW (N)
P559
SCREWS (A)


SCREW (N) & (O)
4mm
SILVER

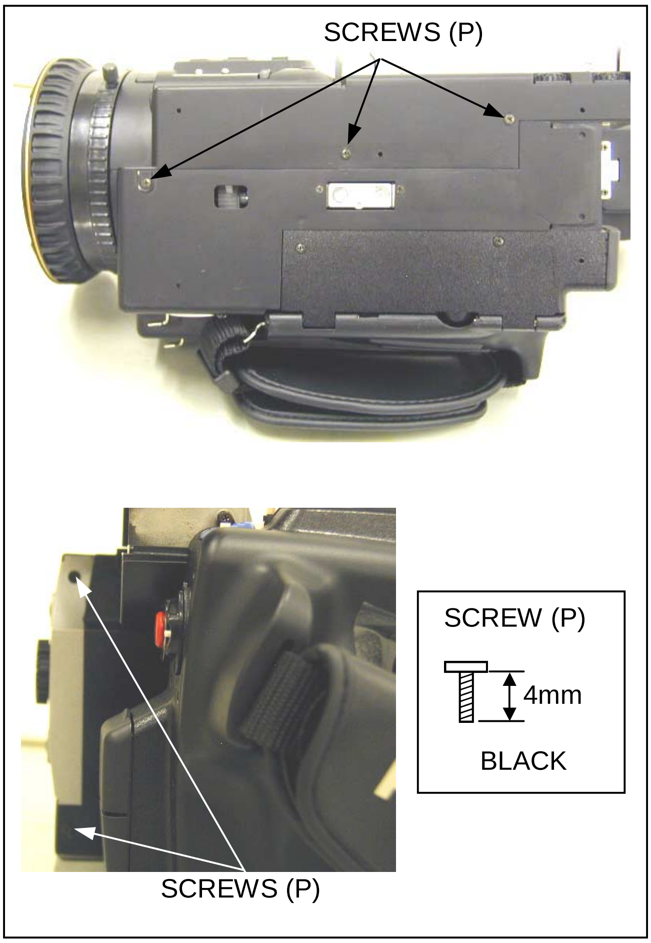
9. Removal of Side Case (R) Unit

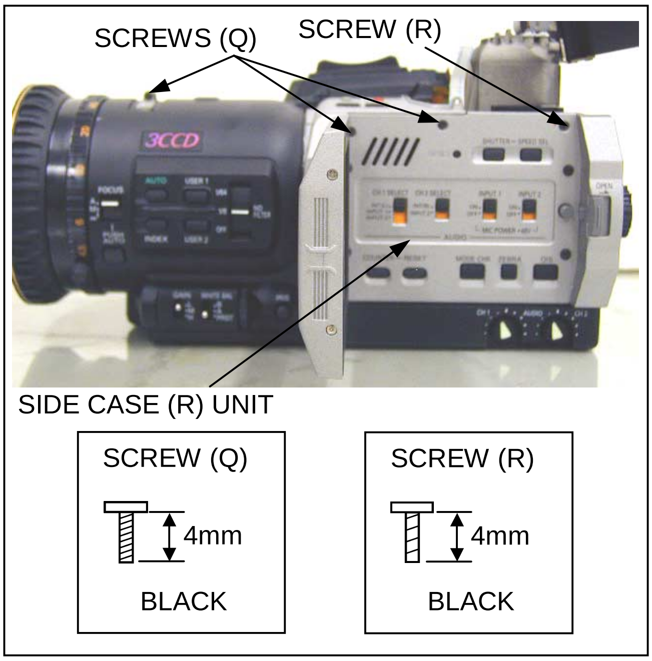
1. Remove the Bottom Cover.
2. Remove the Handle Unit.
3. Unscrew the 5 screws (P).
4. Unscrew the 3 screws (Q).
5. Unscrew the screw (R).
6. Disconnect a connector P556 on VC CONNECT C.B.A..
7. Disconnect a connector (A) on CAMERA C.B.A..
8. Disconnect a connector P4603 on R-SIDE C.B.A..
9. Disconnect a connector P4604 on R-SIDE C.B.A. and remove the Side Case (R) Unit.

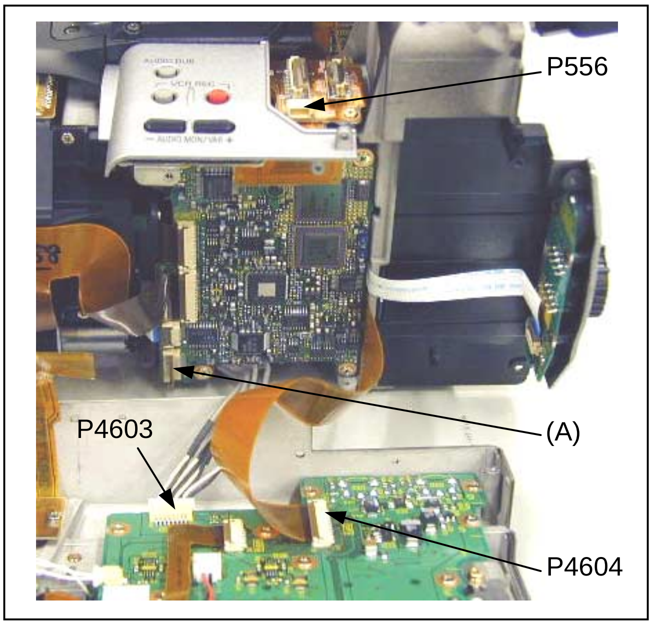
NOTE:
Be careful when connect or disconnect the flexible cable from or to connector P4604, because it have possibility damaging to connector.

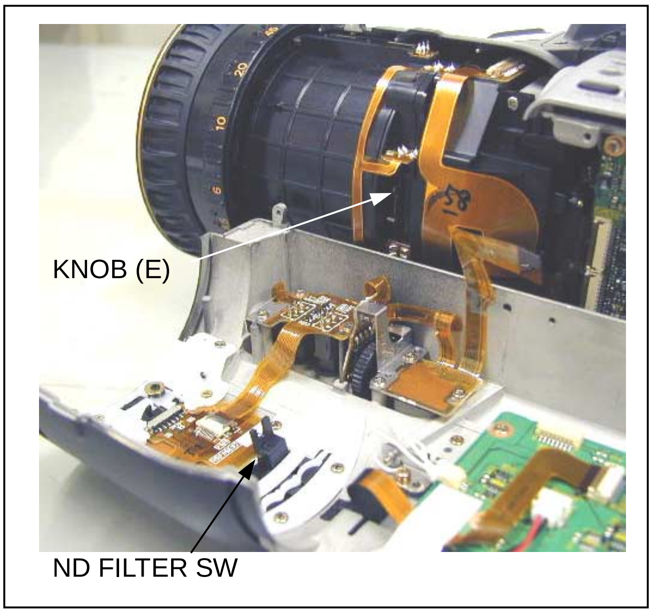
NOTE:
When installing a Side Case (R) unit, make the condition that ND FILTER SW is inserted in the knob(E) of part of ND filter on the lens unit (As for the figure, ND FILTER SW shows the condition of OFF).

NOTE:
When installing a Side Case (R) unit, make the condition about line processing.


SCREWS (P)
SCREW (P)
4mm
BLACK
SCREWS (P)

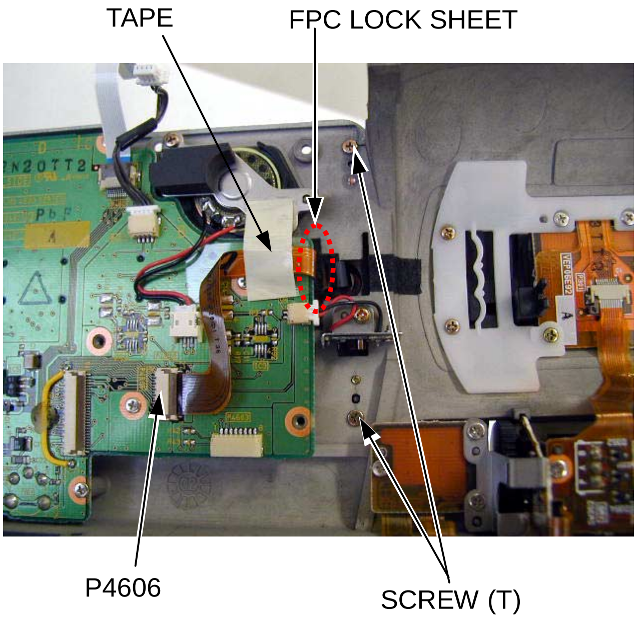

SCREWS (Q)
SCREW (R)
3CCD
SIDE CASE (R) UNIT
SCREW (Q)
4mm
BLACK
SCREW (R)
4mm
BLACK

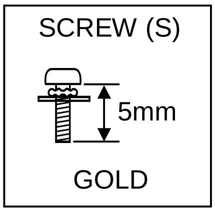

P556
P4603
(A)
P4604

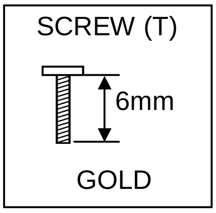

KNOB (E)
ND FILTER SW

10. Removal of LCD Unit

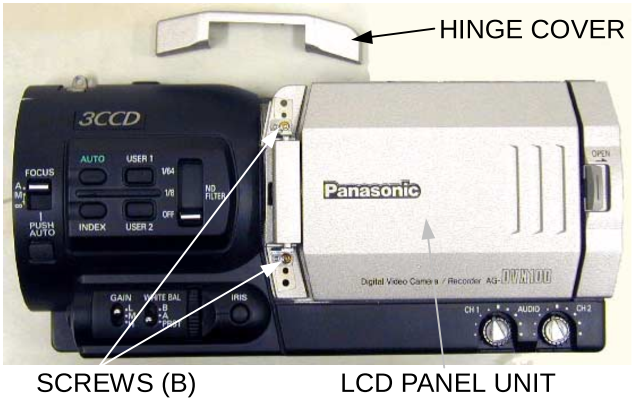
1. Remove the Handle Unit.
2. Remove the Side Case (R) Unit.
3. Unscrew the 2 screws (S) and remove the SIDE (R) SHIELD PLATE (**NOTE:** Picture does not shown below about 2 screws (S) and SIDE (R) SHIELD PLATE).
4. Unscrew the 2 screws (T) and remove the HINGE COVER.
5. Remove the FPC LOCK SHEET.
6. Disconnect a connector P4606 on R-SIDE C.B.A..
7. Unscrew the 2 screws (U) and remove the LCD Unit.

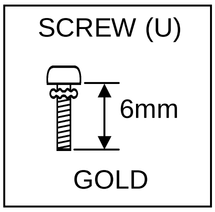

TAPE
FPC LOCK SHEET
P4606
SCREW (T)


SCREW (S)
5mm
GOLD


SCREW (T)
6mm
GOLD

NOTE: When installing a TAPE and FPC LOCK SHEET, put on the original position.


HINGE COVER
SCREWS (B)
LCD PANEL UNIT


SCREW (U)
6mm
GOLD

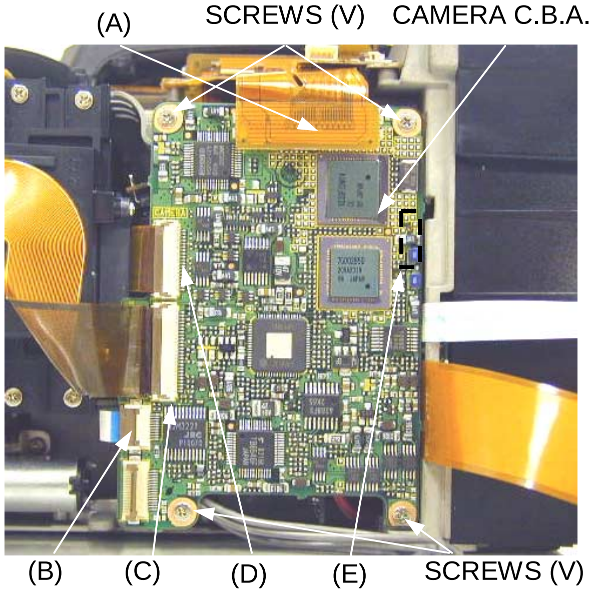
11. Removal of CAMERA C.B.A.

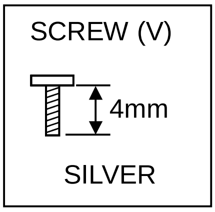
1. Remove the Handle Unit.
2. Remove the Top Panel Unit.
3. Remove the Side Case (R) Unit.
4. Disconnect connector (A) on CAMERA C.B.A
5. Unscrew the 4 screws (V) and remove the CAMERA C.B.A..
6. Disconnect 3 connectors (B), (C) and (D) on CAMERA C.B.A..

NOTE:

When removal of the CANERA C.B.A., the connector (E) which connected between CAMERA and EVR CONNECT C.B.A. is disconnected. Be careful give damage to connector (E).

Check the connector has been connected securely when the CAMERA C.B.A. is installed.



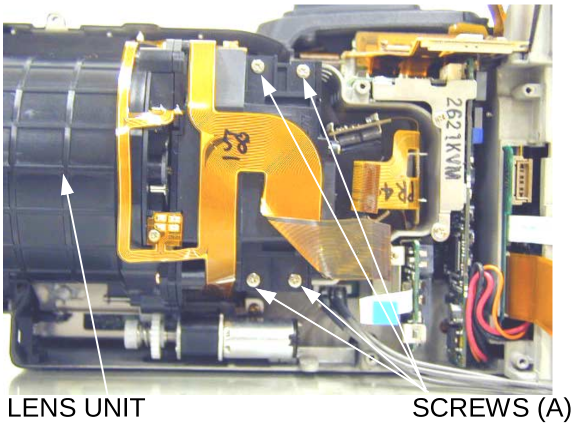


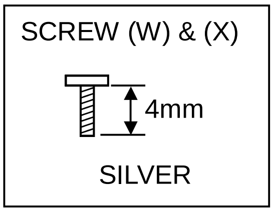
12. Removal of Lens Unit

1. Remove the Handle Unit.
2. Remove the Top Panel Unit.
3. Remove the Side Case (R) Unit.
4. Remove the CAMERA C.B.A..
5. Unscrew the 2 screws (W) and remove the SHIELD INSULATION PLATE (**NOTE:** Picture does not shown below about 2 screws (W) and SHIELD INSULATION PLATE).
6. Unscrew the 4 screws (X) and remove the Lens Unit.

NOTE:

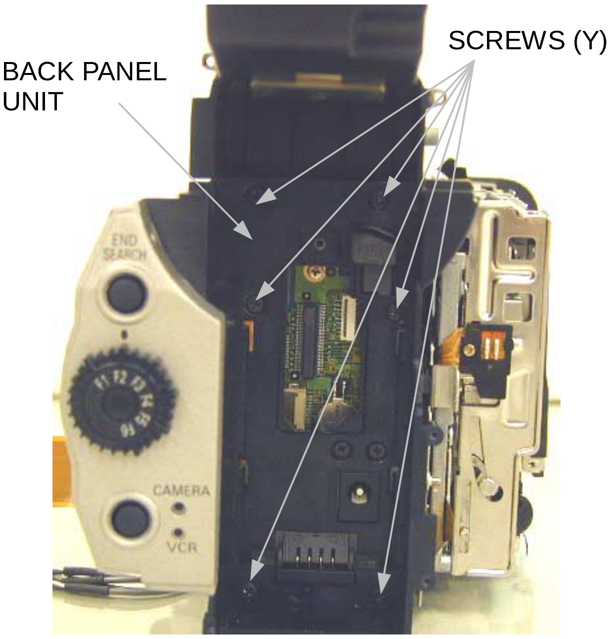
When installing a Lens Unit, set the ZOOM SW to SERVO position.

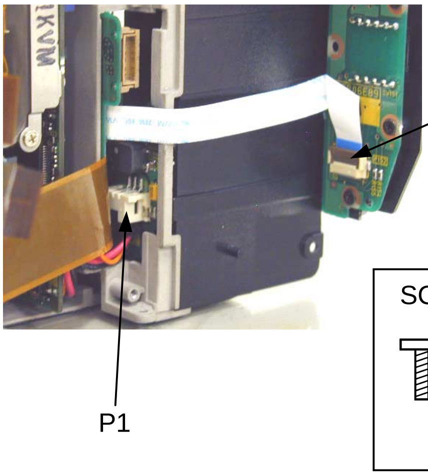


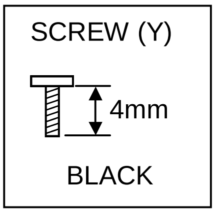


13. Removal of Back Panel Unit

1. Remove the EVR Cover.
2. Remove the Grip Cover Unit.
3. Remove the Handle Unit.
4. Remove the Top Panel Unit.
5. Remove the Side Case (R) Unit.
6. Remove the CAMERA C.B.A..
7. Unscrew the 6 screws (Y).
8. Disconnect a connector P1 on BATTERY C.B.A.. and remove the Back Panel unit.
9. Disconnect a connector P152 on MODE SW C.B.A..

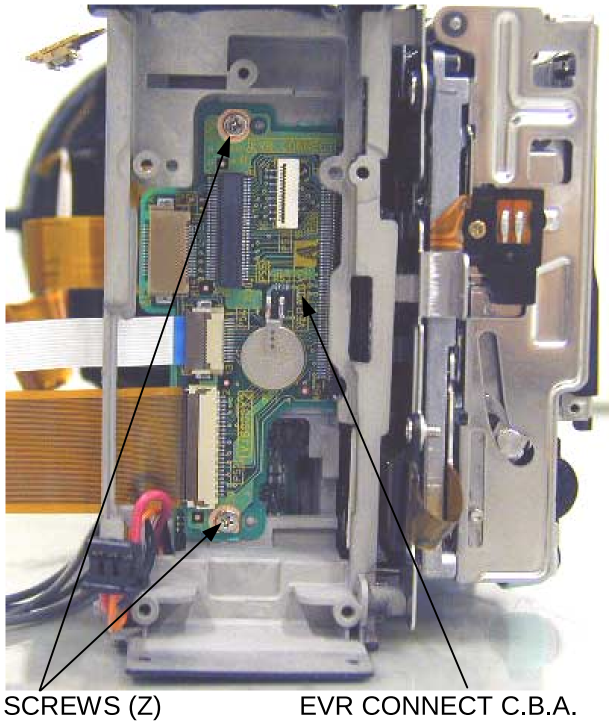

SCREWS (Y)
BACK PANEL UNIT

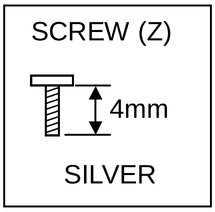



SCREW (Y)
4mm
BLACK

14. Removal of EVR CONNECT C.B.A.

1. Remove the Grip Cover Unit.
2. Remove the Handle Unit.
3. Remove the Top Panel Unit.
4. Remove the Side Case (R) Unit.
5. Remove the CAMERA C.B.A..
6. Remove the Back Panel Unit.
7. Unscrew the 2 screws (Z) and remove the EVR CONNECT C.B.A..


SCREWS (Z)
EVR CONNECT C.B.A.


SCREW (Z)
4mm
SILVER

SECTION 3

MECHANICAL ADJUSTMENT

CONTENTS

1. MECHANICAL ADJUSTMENT AND CONFIRMATION MECH-1
    1-1. Tension Post & T3 Post Height Adjustment MECH-1
    1-2. Tension Post Position Adjustment MECH-2
    1-3. Supply & Take-up Reel Table Height Adjustment MECH-2
    1-4. Confirmation of Tape Pass MECH-3
    1-5. Confirmation of the Envelope MECH-4
    1-6. LISTA Adjustment Procedures MECH-6
        1-6-1. Connection of LISTA Adjustment system MECH-6
        1-6-2. Boot up the LISTA software MECH-9
        1-6-3. How to Entry the Alignment Tape Data MECH-10
        1-6-4. LISTA Sensitivity Detection MECH-11
        1-6-5. LISTA Linearity Adjustment MECH-12
2. MECHANICAL PARTS REPLACEMENT PROCEDURE MECH-14
    2-1. Disassembly Flowchart MECH-14
    2-2. Manual Loading / Unloading MECH-14
    2-3. Disassembly Procedures MECH-15
        2-3-1. Garage Unit MECH-15
        2-3-2. Cylinder Hold Angle MECH-15
        2-3-3. Loading Motor Unit(Gear Box) MECH-15
        2-3-4. Head Amp C.B.A. MECH-16
        2-3-5. Cylinder Unit MECH-16
        2-3-6. Cleaning Arm Unit MECH-16
        2-3-7. Pinch Arm & T3 Arm Unit MECH-16
        2-3-8. Tension Arm Unit MECH-17
        2-3-9. S & T Reel Tables MECH-17
        2-3-10. FF & REV Brake Unit MECH-18
        2-3-11. S & T Main Brake Unit MECH-18
        2-3-12. Play Idler & Play(F/R) Gear MECH-19
        2-3-13. T2 Arm Unit MECH-19
        2-3-14. S1 & T1 Boat Unit MECH-19
        2-3-15. S1 Arm Unit MECH-20
        2-3-16. Radon Plate, Radon Arm & T1 Arm Unit MECH-20
        2-3-17. Pad Arm Unit MECH-21
        2-3-18. Eject Arm Unit MECH-21
        2-3-19. Mode Cam SW Unit & Main Cam Gear MECH-21
        2-3-20. T3 Rod & Brake Rod MECH-22
        2-3-21. Capstan Belt MECH-22

1. MECHANICAL ADJUSTMENT AND CONFIRMATION

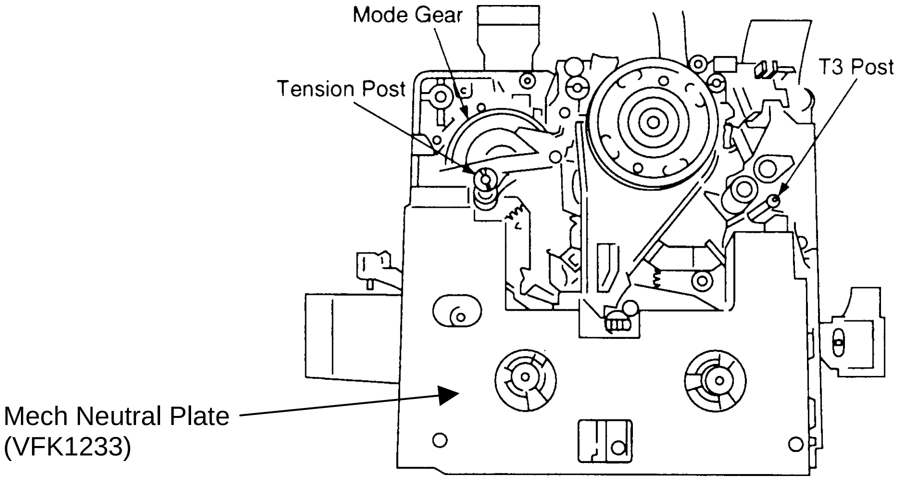
When the following parts are replaced, the mechanical adjustment is required.
Tension Post
T3 Post
Pad Arm Unit
Supply or Take-up Reel Tables

1-1. Tension Post & T3 Post Height Adjustment

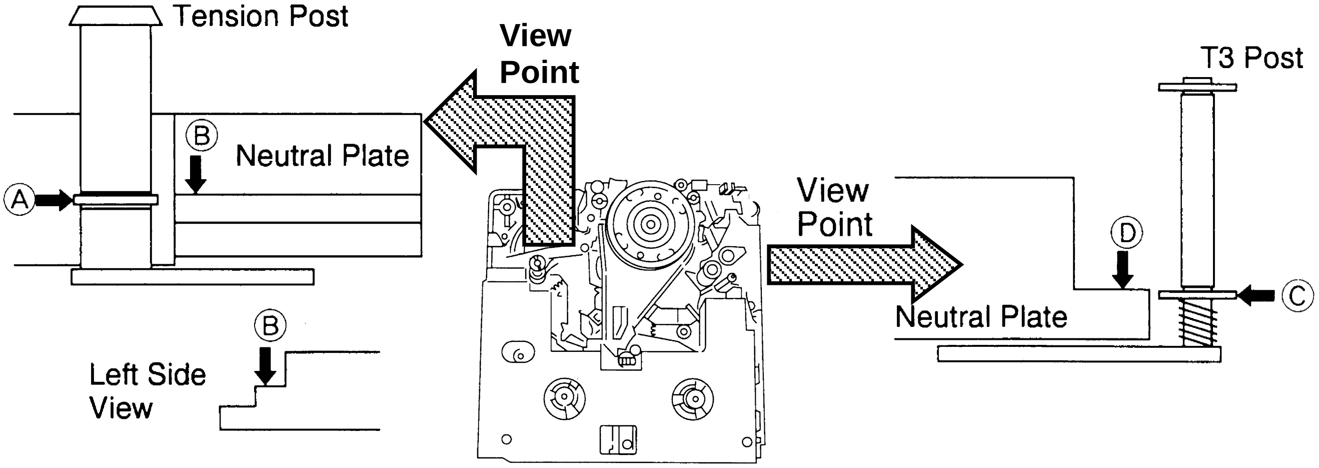
1. Remove the Cylinder Hold Angle and Loading Motor Unit.

NOTE: Not required remove the flexible cable from Loading Motor.

2. Set the Mechanism Plate (VFK1233) on the Mechanism Chassis.
3. Turn the Mode Gear fully clockwise to make full loading condition by using Loading Gear Driver (VFK1266).


Mode Gear
Tension Post
T3 Post
Mech Neutral Plate
(VFK1233)

4. Adjust the height of Tension Post by VFK1149B so the lower flange (A) point become same height of the top surface (B) of 2nd step of the Mechanism Plate as shown in Figure.
5. Adjust the height of T3 Post by VFK1151A so that the lower flange (C) point become same height of the top surface (D) of the Mechanism Plate as shown in Figure.

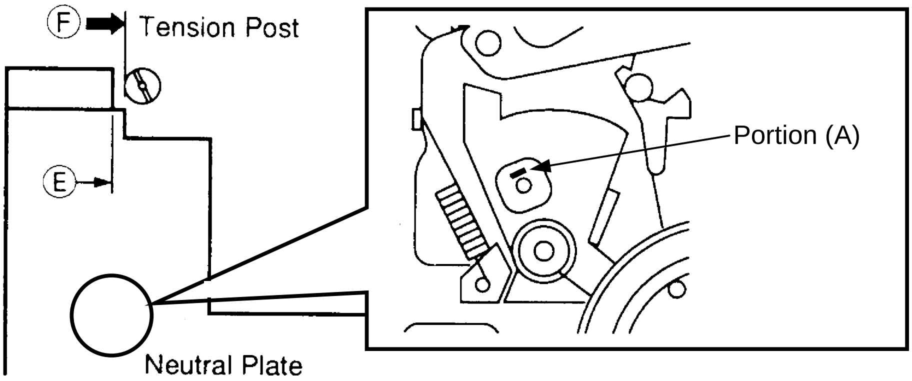

Tension Post
View
Point
T3 Post
B
Neutral Plate
A
View
Point
D
Neutral Plate
C
B
Left Side
View

1-2. Tension Post Position Adjustment

1. Remove the Cylinder Hold Angle and Loading Motor Unit.

NOTE: Not required remove the flexible cable from Loading Motor.

2. Turn the Mode Gear to set the Mechanism position in the play mode, that the Soft Brake of the Pad Arm Unit just touch to the Supply Reel Table as shown in Figure.
3. Set the Mechanism Plate on the Mechanism Chassis as shown in Figure.
4. Insert the tip of minus driver to portion (A) as shown in figure and turn clockwise slowly until the surface of the Tension Post comes to 2nd step (**“F”** Portion of tension post is just touch to **“E”** portion as shown in figure).



5. After adjustment, turn the Mode Gear to unloading direction then turn back to loading direction, and make sure that position is correct at above specification in Play position.

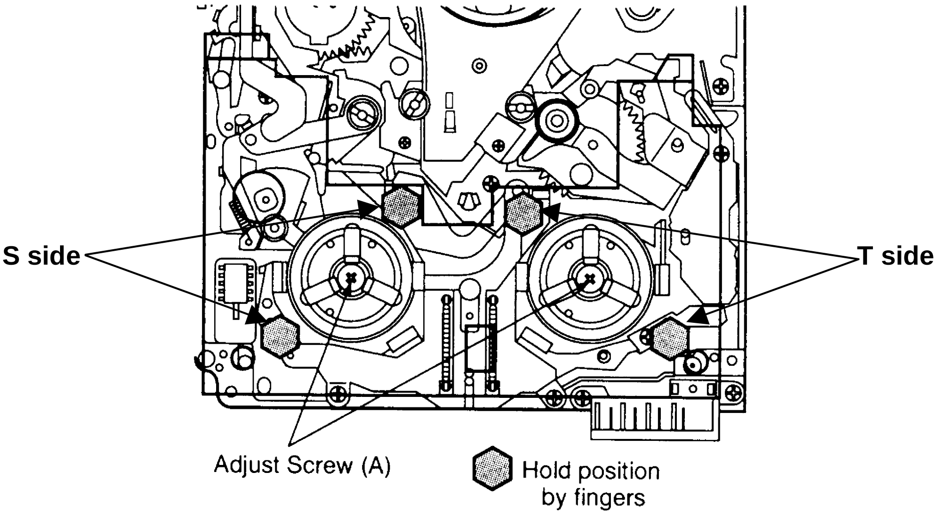
1-3. Supply & Take-up Reel Table Height Adjustment

This adjustment should be performed for Supply or Take-up Reel Table one by one.

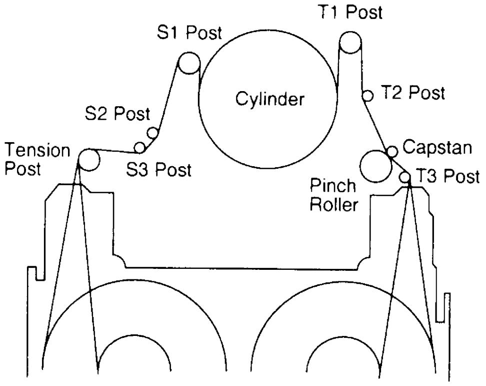
1. Remove the Cylinder Hold Angle and Loading Motor Unit.

NOTE: Not required remove the flexible cable from Loading Motor.

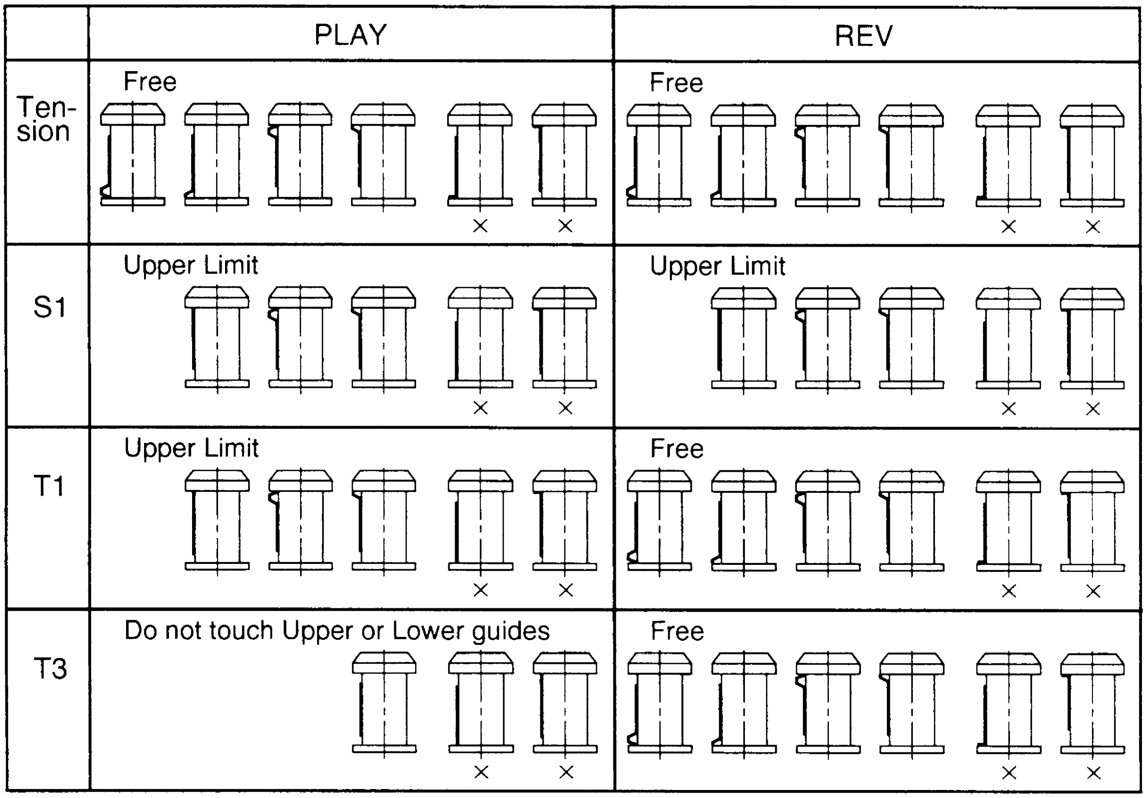
2. Turn the adjustment screw (A) on top of the Supply or Take-up Reel Table fully clockwise. Then, place the Mechanism Plate on the Mechanism Chassis as shown in Figure.
3. Hold the Mechanism plate by finger and slowly turn the adjustment screw counterclockwise until Reel Table just rotate with adjustment screw as shown in Figure.
4. Remove the Mechanism Plate and hold the Reel Table by finger then turn the adjustment screw counterclockwise to 45 degrees from above step point.



1-4. Confirmation of Tape Pass


T1 Post
S1 Post
Cylinder
T2 Post
S2 Post
Capstan
Tension Post
S3 Post
T3 Post
Pinch Roller

1. Play back the cassette tape and confirm that the tape pass without curling at the upper and lower guides of the following posts in the Play and REV modes as shown in Figure.


PLAY
REV
Ten-sion
Free
×
×
Free
×
×
S1
Upper Limit
×
×
Upper Limit
×
×
T1
Upper Limit
×
×
Free
×
×
T3
Do not touch Upper or Lower guides
×
×
Free
×
×

2. If there is curing or damage at the ether guide of posts, readjust the height of the posts by turning the post with the Post Adjustment Driver.

1-5. Confirmation of the Envelope

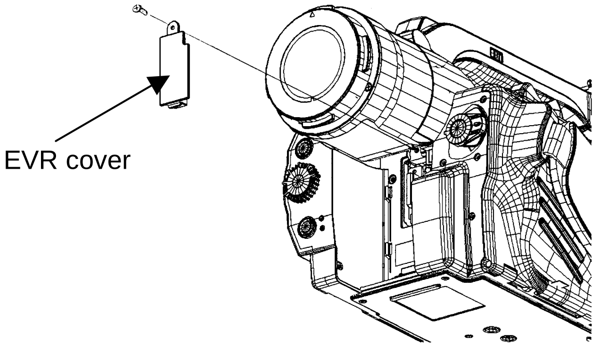
For performing the confirmation of envelope, the following tool are required.

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	NOTE
EVR Extender Board	VFK1694	1	
30pin Flat Cable	VFK1317	2	
DC Cable	VJA0941	1	
AC Adaptor	-----		

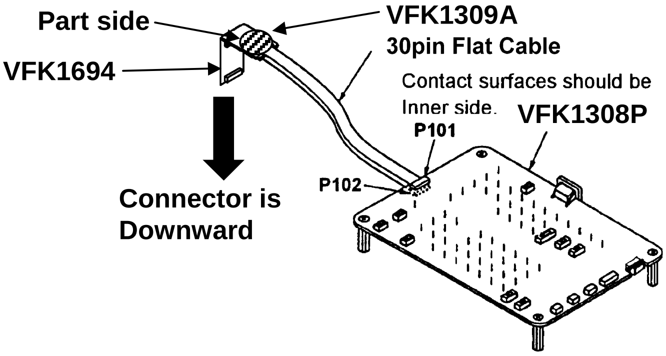
NOTE: VFK1309 can be use to this confirmation and VFK1309A is only required LCD adjustment.

To confirm the envelope output, connect the Connection and Measuring Boards as described below.

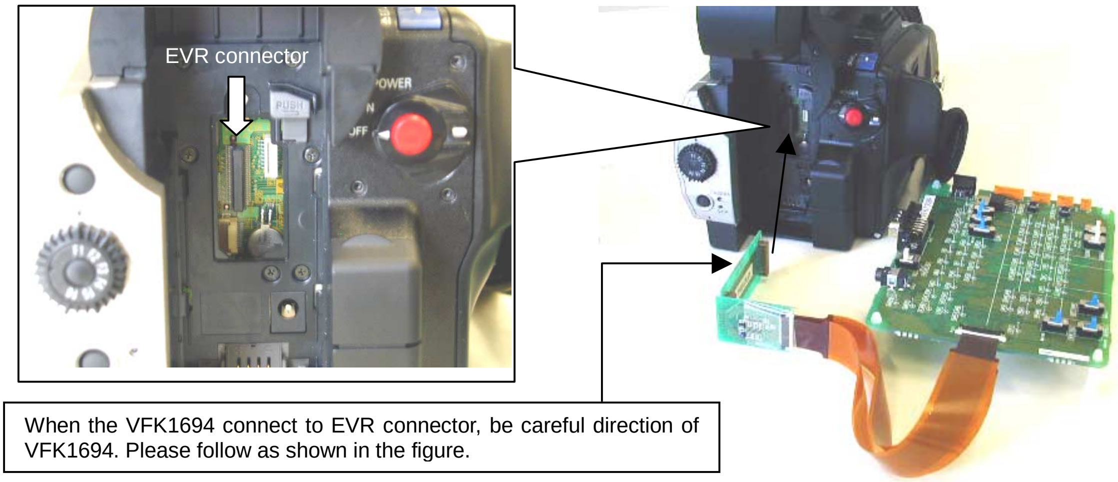
1. Unscrew 1 screw and remove the EVR cover.



2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Extender board (VFK1694).

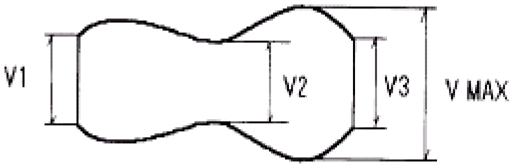

Part side
VFK1694
VFK1309A
30pin Flat Cable
Contact surfaces should be Inner side.
VFK1308P
P101
P102
Connector is Downward

3. Connect the EVR Extender board (VFK1694) to EVR connector on EVR connect C.B.A. in Unit. Then make sure that the direction of the Extender Board is correct as shown in Figure.


EVR connector

When the VFK1694 connect to EVR connector, be careful direction of VFK1694. Please follow as shown in the figure.

4. Supply DC6V-9V to the Measuring Board(VFK1308P). Please use the DC cable(VJA0941) and AC Adaptor to supply DC voltage to Measuring Board.
5. Connect the oscilloscope to the Measuring Points [ENVELOPE] and [HID] as a trigger on the Measuring Board (VFK1308P).
6. Play back the color bar alignment tape and confirm that the Envelope is within the following specifications.



V1/V max. 0.9
V2/V max. 0.9
V3/V max. 0.9

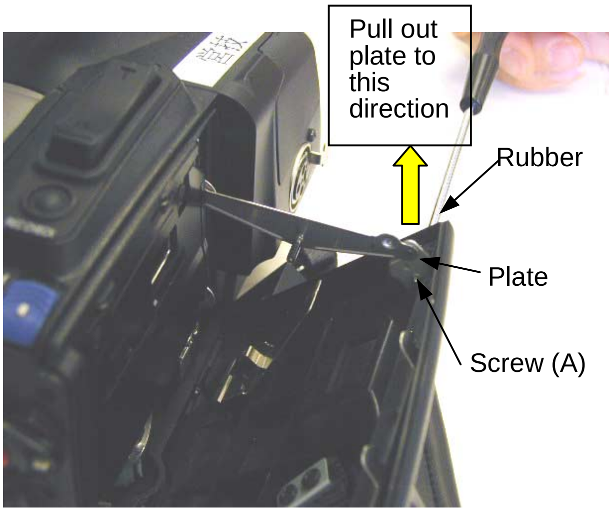
Make as flat as possible

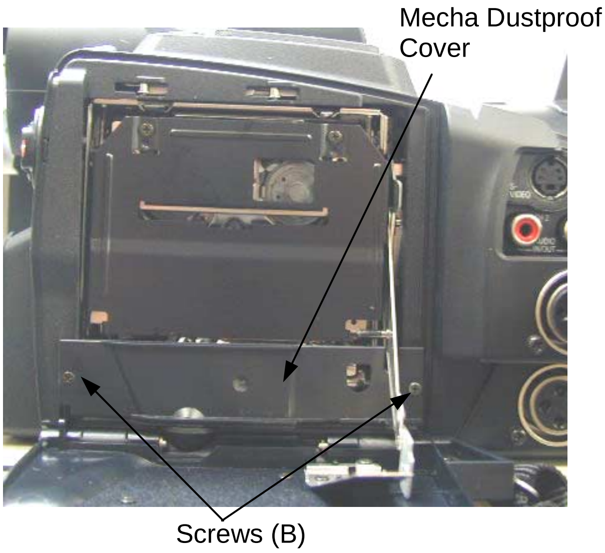
7. If it is out of the specification, adjust the height of the S1 and T1 Post.

<NOTE: Insertion of cassette tape>

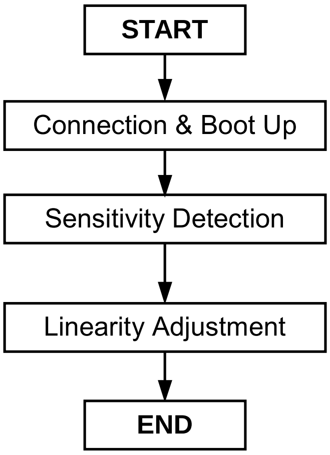
To adjust height of S1 and T1 post, below indicated operation is required.

1. Set to VCR mode in camera recorder and open the cassette holder.
2. Insert DV color bar alignment tape and confirm that the camera recorder is in the loading completion condition.
3. Open the **"7. ADJUST MENU"** and select the item **"ATF GAIN"**.
4. Press the OPERATION LEVER.
5. Message **"NOW SERVO ADJUST PUSH MENU TO RETURN"** is appeared on screen and tilt the OPERATION LEVER in UP(PLAY) direction to playback the tape.
6. Press MENU button 3 times to return normal screen mode.
7. Remove the rubber on Grip Cover Unit.
8. Unscrew the screw (A) and remove the plate from frame.
9. Unscrew the 2 screws (B) and remove the Mecha Dustproof Cover.





1-6. LISTA Adjustment Procedures

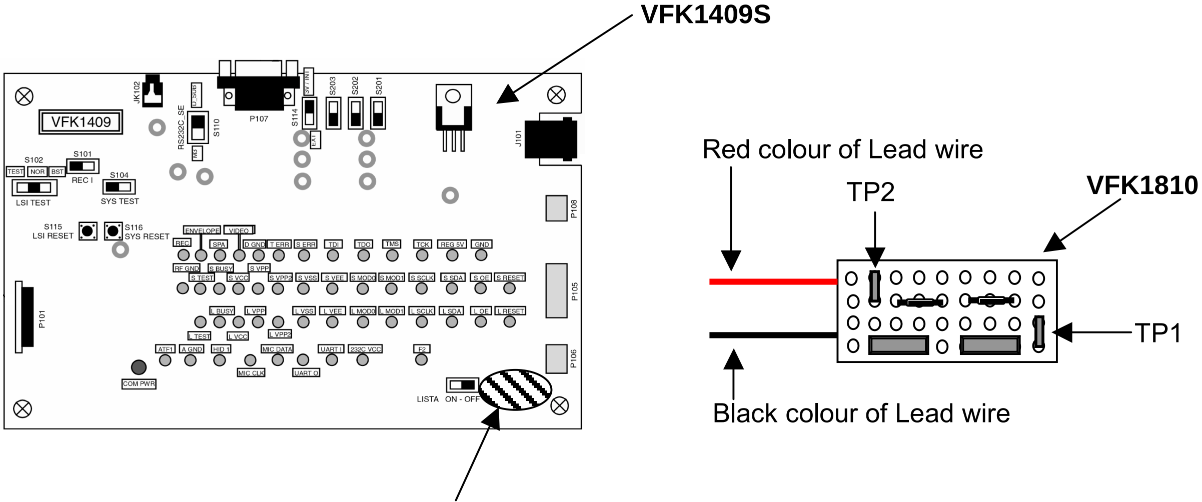


1-6-1. Connection of LISTA Adjustment system

TAPE	VFM3000EDS (DV LISTA)
M. EQ	Personal Computer (A/D Board should be installed.)
TOOL	VFK1481K (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board), VFK1308P (Measuring Board), VFK1409A (Measuring Board) ← **NOTE 2** VFK1317 (30P flat cable): 2pcs, VFK1309A (EVR connector board) ← **NOTE 1** VFK1694 (EVR extender board), VJA0941 (DC cable): 2pcs, 9P RS232C cross cable.
TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)

NOTE 1:
VFK1309 and VFK1309A can be use to perform LISTA adjustment. The VFK1309A is only required LCD adjustment (refer to item 1 of Electrical adjustment procedure in section 4.)

NOTE 2:
If you already have VFK1409S (Measuring board), it can be use to perform LISTA adjustment with VFK1810 (LISTA Measuring board).
How to install the VFK1810 to VFK1409S, please refer to next explanation.


VFK1409S
VFK1409
JK102
RS232C SE
S110
P107
S114
S203
S202
S201
J101
S102
S101
REC I
S104
LSI TEST
SYS TEST
S115
LSI RESET
S116
SYS RESET
P108
P105
P106
P101
COM PWR
LISTA ON - OFF
Red colour of Lead wire
TP2
VFK1810
TP1
Black colour of Lead wire

1. Install the two test points of VFK1810 to through hole in this area and solder it test point at foil side of VFK1409S to fixed VFK1810.

2. Insert the two lead wires of VFK1810 to through hole.

3. Solder the red colour of lead wire to pin1 of P108 on foil side on VFK1409S.

4. Solder the black colour of lead wire to pin3 of P106 on foil side on VFK1409S.

1. Set the switches on the Measuring Board as shown below.

<VFK1308P>

SW NAME& No.	Setting Position
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	L
BST TEST (SW104)	NORMAL
SW105	H
SW106	OFF
SW107	CENTER position
SW108	H
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

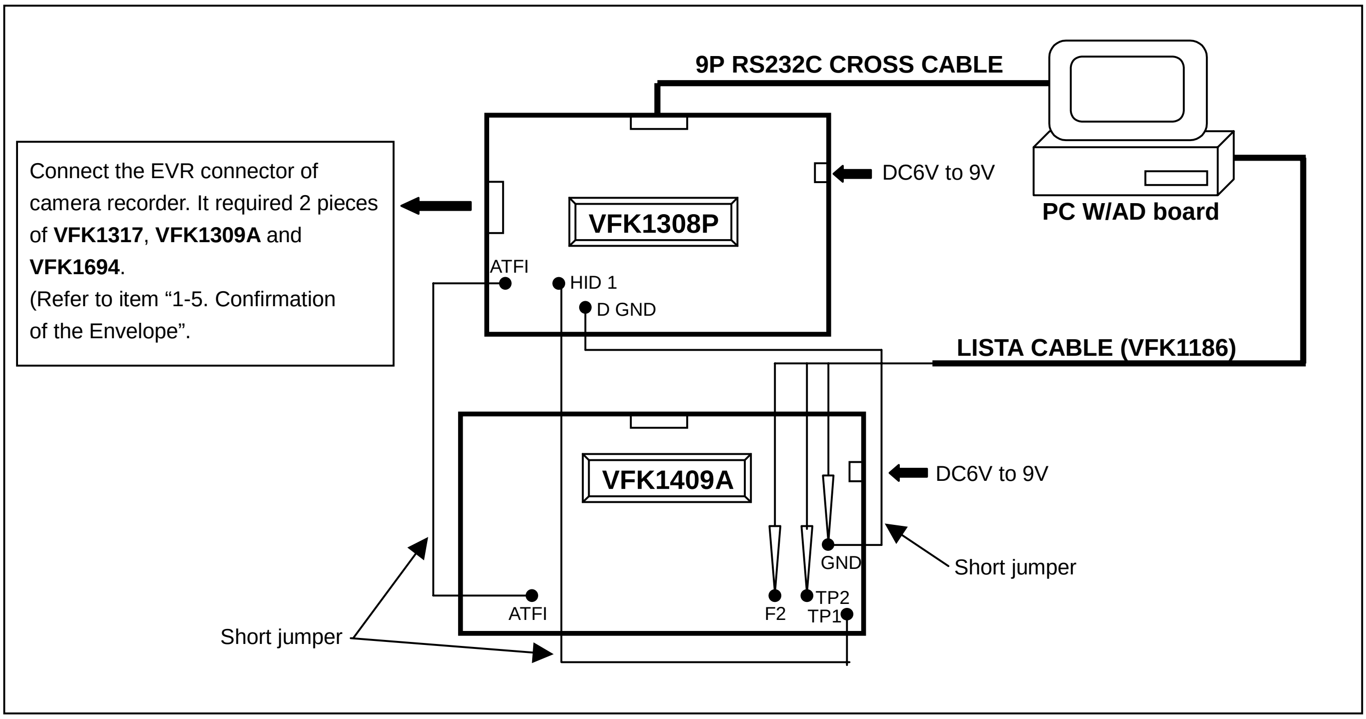
<VFK1409S or VFK1409A>

SW NAME& No.	Setting Position
RS232C SEL (S110)	D-SUB
REC I (S101)	NOR
LSI TEST (S102)	NOR
S104	NOR
S114	EXT
S201	Right side
S202	Right side
S203	Right side
LISTA ON-OFF	ON

2. Connect a PC, the Measuring Board and the camera recorder as shown below.

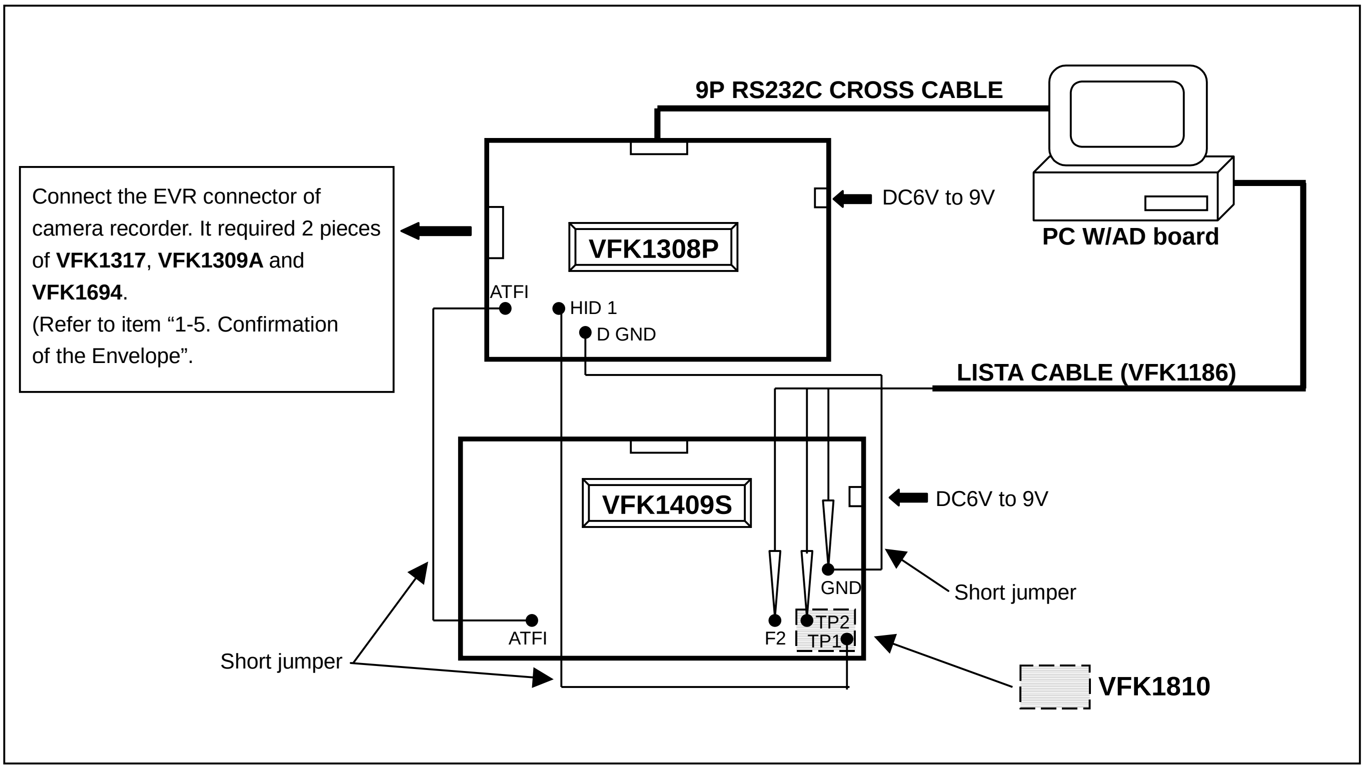
<CONNECTION>

1) In case of use VFK1409A


9P RS232C CROSS CABLE
VFK1308P
DC6V to 9V
PC W/AD board
ATFI
HID 1
D GND
LISTA CABLE (VFK1186)
VFK1409A
DC6V to 9V
GND
Short jumper
ATFI
F2
TP2
TP1
Short jumper

Connect the EVR connector of camera recorder. It required 2 pieces of **VFK1317**, **VFK1309A** and **VFK1694**.
(Refer to item "1-5. Confirmation of the Envelope".

2) In case of use VFK1409S


9P RS232C CROSS CABLE
VFK1308P
DC6V to 9V
PC W/AD board
ATFI
HID 1
D GND
LISTA CABLE (VFK1186)
VFK1409S
DC6V to 9V
GND
Short jumper
ATFI
F2
TP2
TP1
Short jumper
VFK1810

Connect the EVR connector of camera recorder. It required 2 pieces of **VFK1317**, **VFK1309A** and **VFK1694**.
(Refer to item "1-5. Confirmation of the Envelope".

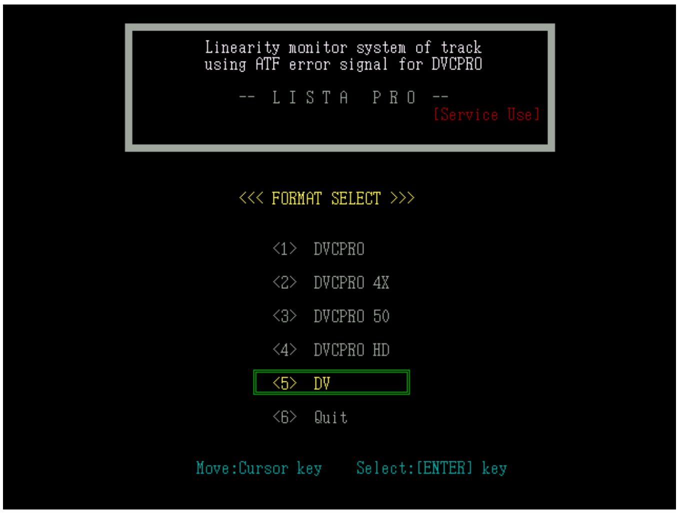
3. Connect the clips of the LISTA cable to test point on the Measuring Board. (Refer to Items **"Sensitivity Detection"** and **"Linearity Adjustment"**.)

1-6-2. Boot up the LISTA software

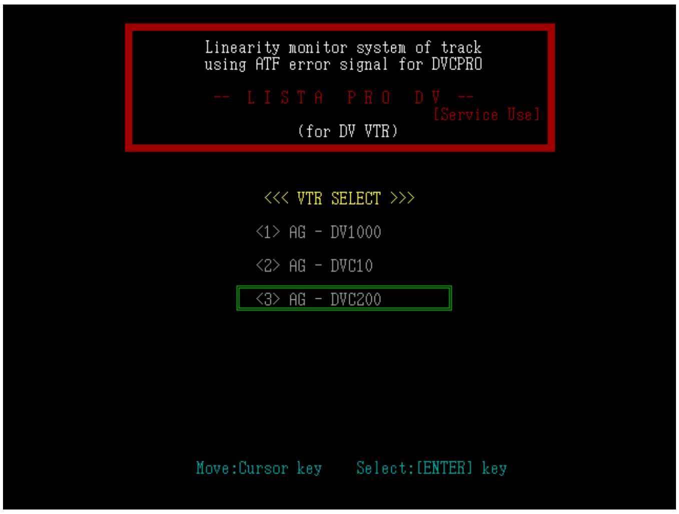
1. Boot up the LISTA software on DOS mode.

< How to Installation and Boot Up >
Make a directory like C: LISTA and copy all files in the VFK1481K(LISTA Software) to it on PC.
Type **"LISTA"** and press **ENTER** key, then boot up the LISTA software VFK1481K.

2. After boot up the LISTA software, **<<< FORMAT SELECT >>>** display appeared. Select the item **"DV"**.
After select the format, **<<< VTR SELECT >>>** display appeared, and select the model **"AG-DVC200"**.



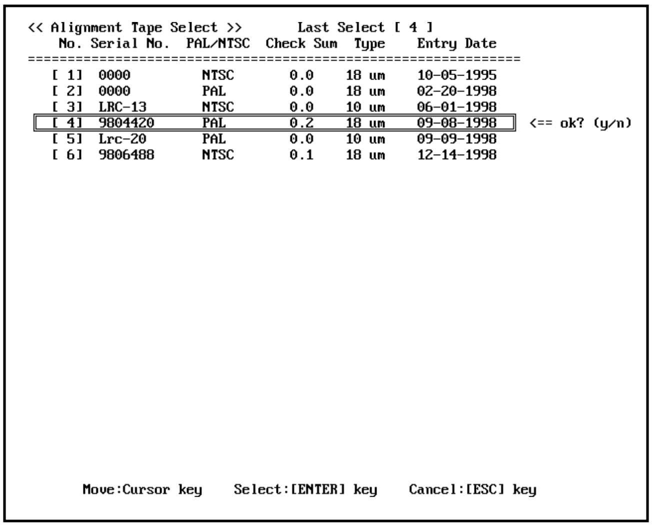
```
    Linearity monitor system of track
    using ATF error signal for DVCPRO

        -- L I S T A   P R O --
                          [Service Use]

          <<< FORMAT SELECT >>>

             <1>  DVCPRO
             <2>  DVCPRO 4X
             <3>  DVCPRO 50
             <4>  DVCPRO HD
             <5>  DV
             <6>  Quit

   Move:Cursor key     Select:[ENTER] key
```



```
    Linearity monitor system of track
    using ATF error signal for DVCPRO

      -- L I S T A   P R O   D V --
                          [Service Use]
              (for DV VTR)

            <<< VTR SELECT >>>
           <1> AG - DV1000
           <2> AG - DVC10
           <3> AG - DVC200

   Move:Cursor key     Select:[ENTER] key
```

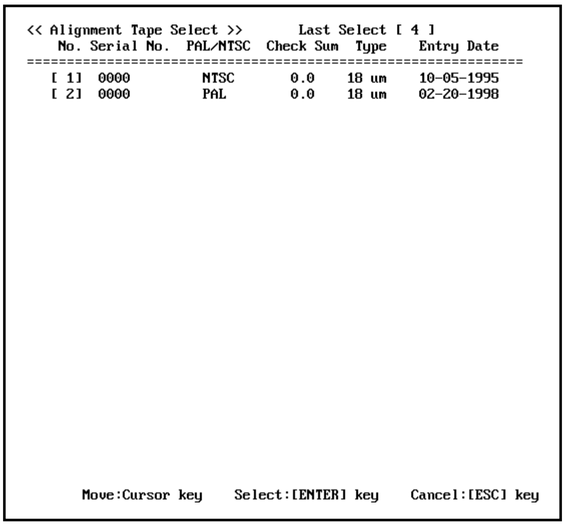
3. Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software have not resisted data of alignment tape, press the ESC key, then main menu is display on the screen. And select the item **"<4> Alignment Tape"** for entry the data on the attachment sheet, which is enclosed of alignment tape.
4. In case of LISTA software have resisted data of alignment tape, select the serial number of Alignment tape, then appear message **"ok? (y/n)"** on the screen. And press **" Y "** or **" ENTER "** key, then LISTA main menu is display on screen.

< In case of Alignment Tape resisted already >



```
<< Alignment Tape Select >>       Last Select [ 4 ]
    No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
==============================================================
    [ 1]  0000          NTSC        0.0     18 um    10-05-1995
    [ 2]  0000          PAL         0.0     18 um    02-20-1998
    [ 3]  LRC-13        NTSC        0.0     10 um    06-01-1998
    [ 4]  9804420       PAL         0.2     18 um    09-08-1998   <== ok? (y/n)
    [ 5]  Lrc-20        PAL         0.0     10 um    09-09-1998
    [ 6]  9806488       NTSC        0.1     18 um    12-14-1998

       Move:Cursor key     Select:[ENTER] key     Cancel:[ESC] key
```

< In case of Alignment Tape does not resisted >



```
<< Alignment Tape Select >>       Last Select [ 4 ]
    No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
==============================================================
    [ 1]  0000          NTSC        0.0     18 um    10-05-1995
    [ 2]  0000          PAL         0.0     18 um    02-20-1998

       Move:Cursor key     Select:[ENTER] key     Cancel:[ESC] key
```

1-6-3. How to Entry the Alignment Tape Data

1. Select the item **“<4> Alignment Tape”** on the LISTA main menu.
2. Select the item **“<2> ENTRY”** on the alignment menu.
3. After display the screen of **<<Alignment Tape Data Entry>>**, first input the Serial Number follow the printed number on the tape label. And input the number **“0”** or **“1”** for selected the PAL/NTSC. And after that for entry the tape type, incase of DVCPRO input to **“0”**, in case of DV input to **“1”**.
4. After select the tape type, the frame for input the DATA and CHECK SUM appeared on the screen. Input the numerical value in numerical order on the data sheet, which are enclosed with alignment tape. If input the wrong number, appear the error message on the screen, then confirm that the data on the sheet.
5. After entry the data, select **“<1> SELECT”** on the Alignment Tape Menu and select the serial number of the alignment tape.

<< Alignment Tape Data Entry >> **Serial No. Lrc-20 (NTSC) 10μm**

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

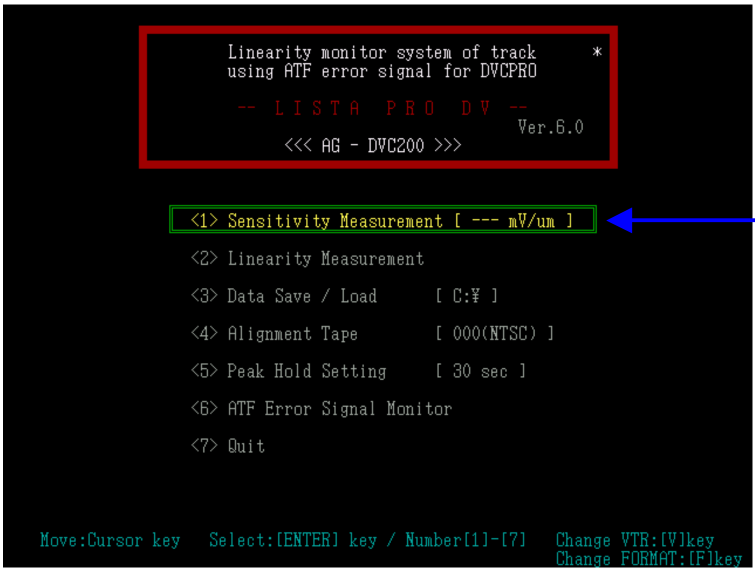
[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6

1-6-4. LISTA Sensitivity Detection

TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
SPEC.	40 mV / µm to 120 mV / µm



```
        Linearity monitor system of track        *
        using ATF error signal for DVCPRO

          -- L I S T A   P R O   D V --
                                         Ver.6.0
              <<< AG - DVC200 >>>

  <1> Sensitivity Measurement [ --- mV/um ]

  <2> Linearity Measurement

  <3> Data Save / Load       [ C:¥ ]

  <4> Alignment Tape         [ 000(NTSC) ]

  <5> Peak Hold Setting      [ 30 sec ]

  <6> ATF Error Signal Monitor

  <7> Quit


Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                       Change FORMAT:[F]key
```

Select at Sensitivity Detection.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button while pressing the ADUB button and the OPERATION LEVER in REW direction at the same time, then open the **"VCR FUNCTION MENU"**.
4. Open the **"7. ADJUST MENU"** in **"VCR FUNCTION MENU"**.
5. Select the item **"ATF GAIN"** and press the OPERATION LEVER.
6. Message **"NOW SERVO ADJUST PUSH MENU TO RETURN"** is appeared on screen and tilt the OPERATION LEVER in UP(PLAY) direction to playback the tape.
7. Press MENU button to return **"ADJUST MENU"** screen.
8. Select item **"<1> Sensitivity Measurement"** on the LISTA main menu, and press **"ENTER"**.
9. Then the tape is played back (tape speed : 101.2%) automatically, and message **"1.2% Speed…"** appears an the screen.
10. Press the ENTER key, and then start measurement of the sensitivity value.
11. Confirm that the sensitivity value is with in specification, when the message **"<<Sensitivity Measurement Finish>>"**.

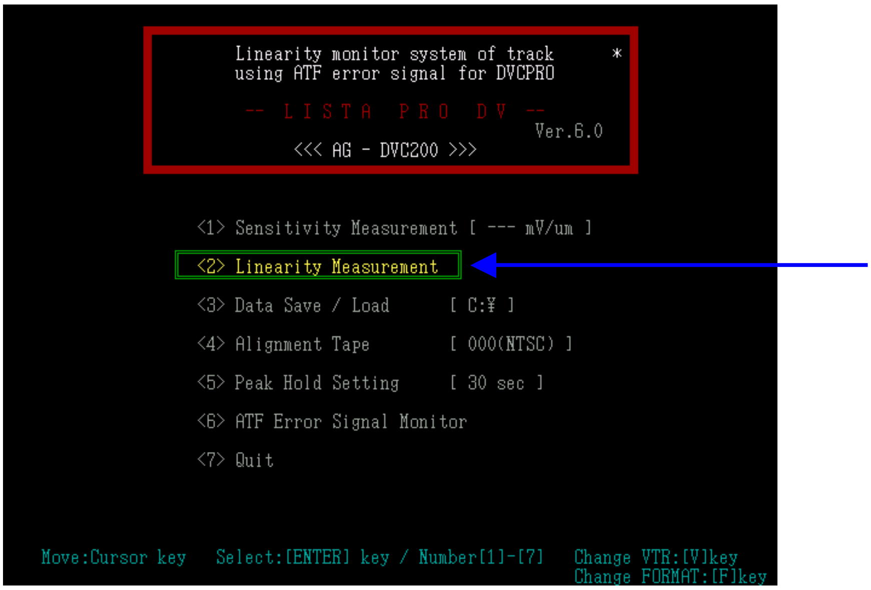
<<Sensitivity Measurement Finish>>

Sensitivity **72.95 (mV/um)**
Sens.1 65.43 (mV/um)
Sens.1 85.48 (mV/um)

Confirm that the value of Sens.Value1 and Sens.Value2 in specification

1-6-5. LISTA Linearity Adjustment

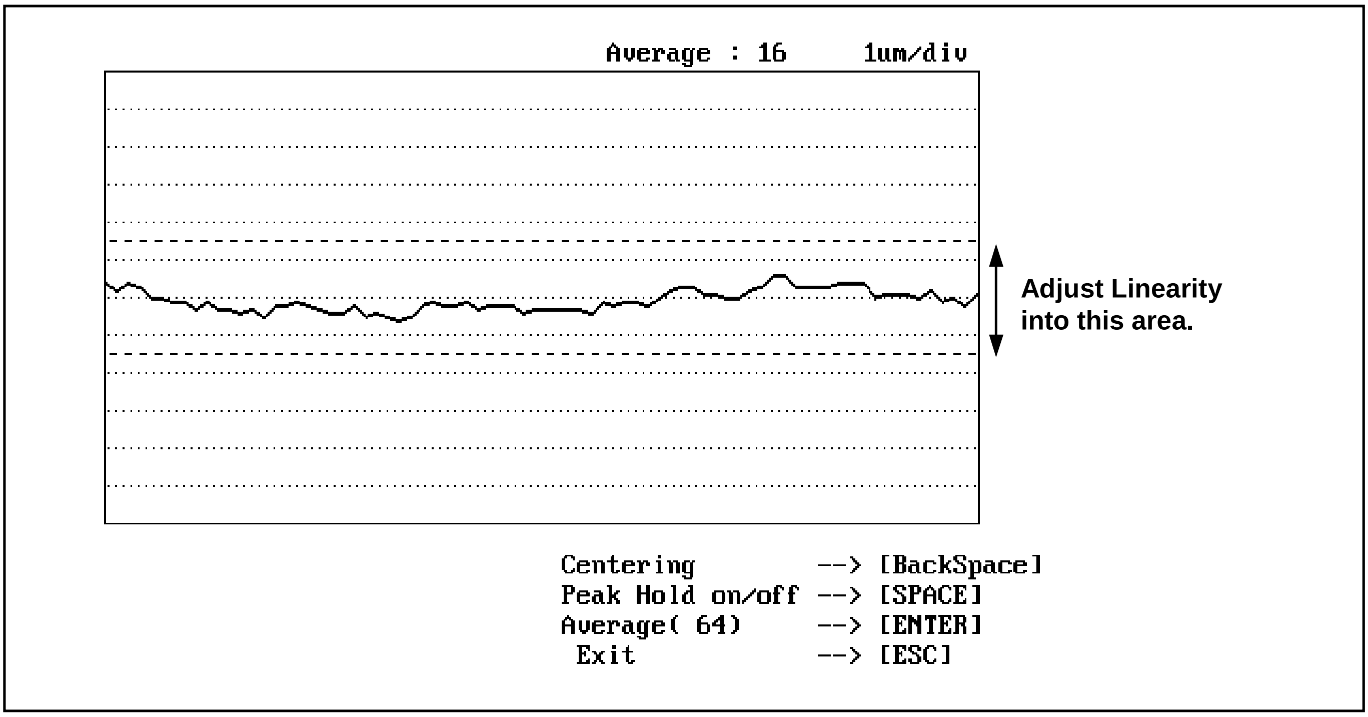
TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
ADJ.	S1 and T1 Post Height
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
TOOL	VFK1149B : Post Driver
SPEC.	Linearity : less than 3µm



```
      Linearity monitor system of track      *
      using ATF error signal for DVCPRO
         -- LISTA  PRO  DV --
                                      Ver.6.0
            <<< AG - DVC200 >>>

   <1> Sensitivity Measurement [ --- mV/um ]
   <2> Linearity Measurement
   <3> Data Save / Load        [ C:¥ ]
   <4> Alignment Tape          [ 000(NTSC) ]
   <5> Peak Hold Setting       [ 30 sec ]
   <6> ATF Error Signal Monitor
   <7> Quit

Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                       Change FORMAT:[F]key
```

Select at Linearity Measurement.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button while pressing the ADUB button and the OPERATION LEVER in REW direction at the same time, then open the **“VCR FUNCTION MENU”**.
4. Open the **“7. ADJUST MENU”** in **“VCR FUNCTION MENU”**.
5. Select the item **“LINEARITY”** and press the OPERATION LEVER.
6. Message **“NOW SERVO ADJUST PUSH MENU TO RETURN”** is appeared on screen and tilt the OPERATION LEVER in UP(PLAY) direction to playback the tape.
7. Press MENU button to return **“ADJUST MENU”** screen.
8. Select item **“<2> Linearity Measurement”** on the LISTA main menu, and press **“ENTER”**, then appeared Linearity Waveform.
9. When the waveform as shown below figure is displayed on the screen, press the **“BS (Back Space)”** key for display the waveform positioned at the center of the scale on screen. Adjust S1 and T1 post height by using the post driver so that the linearity waveform is become flat as possible, and it should be within specification. (Adjust linearity waveform in the red dot line on the screen.)
   NOTE: To adjust height of S1 and T1 post, below indicated operation is required.
    1. Set to VCR mode in camera recorder and open the cassette holder.
    2. Insert DV Alignment Tape (VFM3000EDS) and confirm that the camera recorder is in the loading completion condition.
    3. Open the **“7. ADJUST MENU”** and select the item **“LINEARITY”**.
    4. Press the OPERATION LEVER, then Message **“NOW SERVO ADJUST PUSH MENU TO RETURN”** is appeared on screen and tilt the OPERATION LEVER in UP(PLAY) direction to playback the tape.
    5. Press MENU button to return **“ADJUST MENU”** screen.
    6. Remove the rubber on Grip Cover Unit (refer to figure on page MECH-5).
    7. Unscrew the screw (A) and remove the plate from frame (refer to figure on page MECH-5).
    8. Unscrew the 2 screws (B) and remove the Mecha Dustproof Cover (refer to figure on page MECH-5).

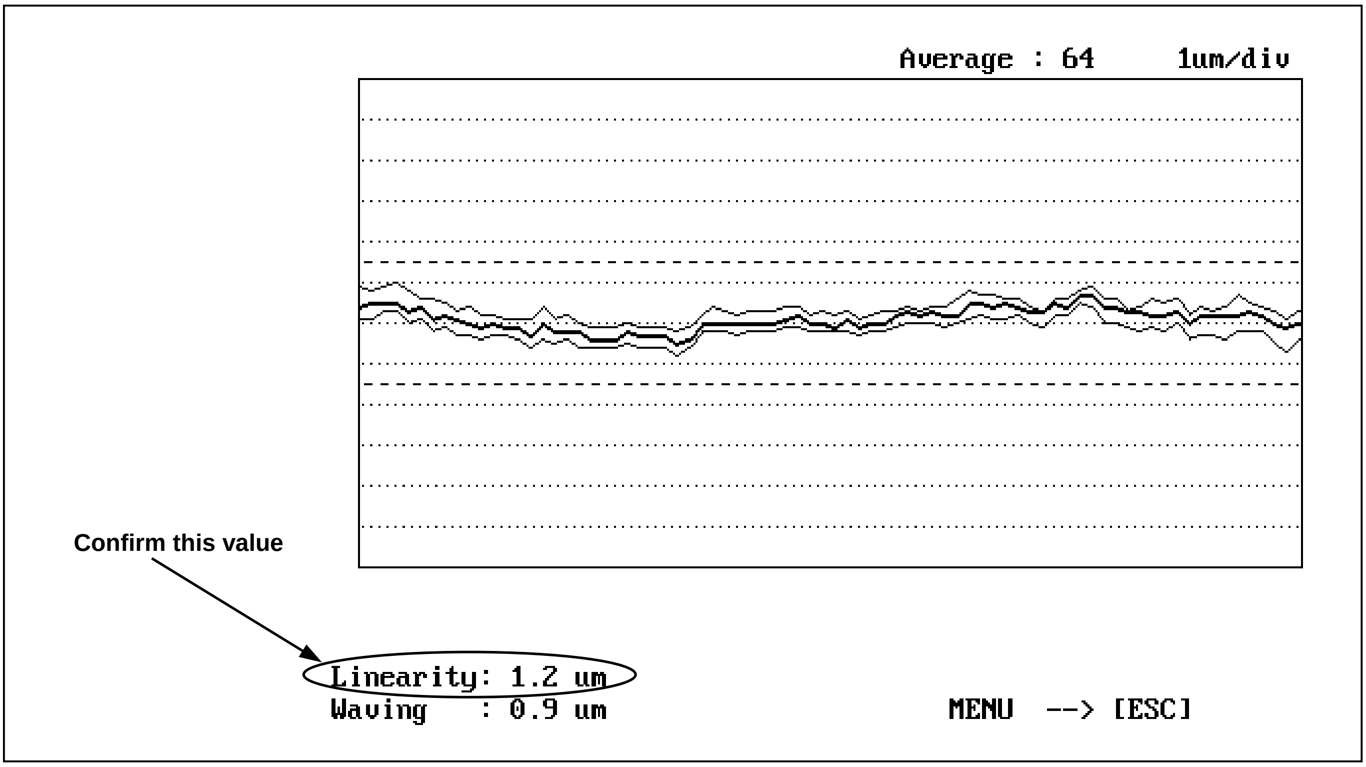


```
Average : 16     1um/div

Centering        --> [BackSpace]
Peak Hold on/off --> [SPACE]
Average( 64)     --> [ENTER]
 Exit            --> [ESC]
```

Adjust Linearity into this area.

POINT :
The part of left side of waveform (entrance side) is adjusted by height of S1 post and part of right side of waveform (exit side) is adjusted by height of T1 post.
Lower part of above waveform of figure is displayed lead of Cylinder.
When the post driver is remove from upper part of post, linearity waveform is changed.
After finish this adjustment, eject the tape and insert the tape again for confirm the shape of linearity waveform does not changed.

10. Press **"SPACE"** key to perform the Peak Hold in 30 seconds when linearity is displayed.
11. After finish the Peak Hold, press **"SHIFT"** and " **}** " key simultaneously on the Key Board, then the numerical values of **"Linearity"** and **"Waving"** is displayed on left lower portion of screen. And confirm the numerical value of **"Linearity"** is in the specification. If the **"Linearity"** is out of specification adjust height of S1 and T1 post.
12. After this measurement is finished, press the ESC key to return to the main menu.



```
Average : 64     1um/div

Linearity: 1.2 um
Waving   : 0.9 um                    MENU  --> [ESC]
```

Confirm this value

2. MECHANICAL PARTS REPLACEMENT PROCEDURE

2-1. Disassembly Flowchart

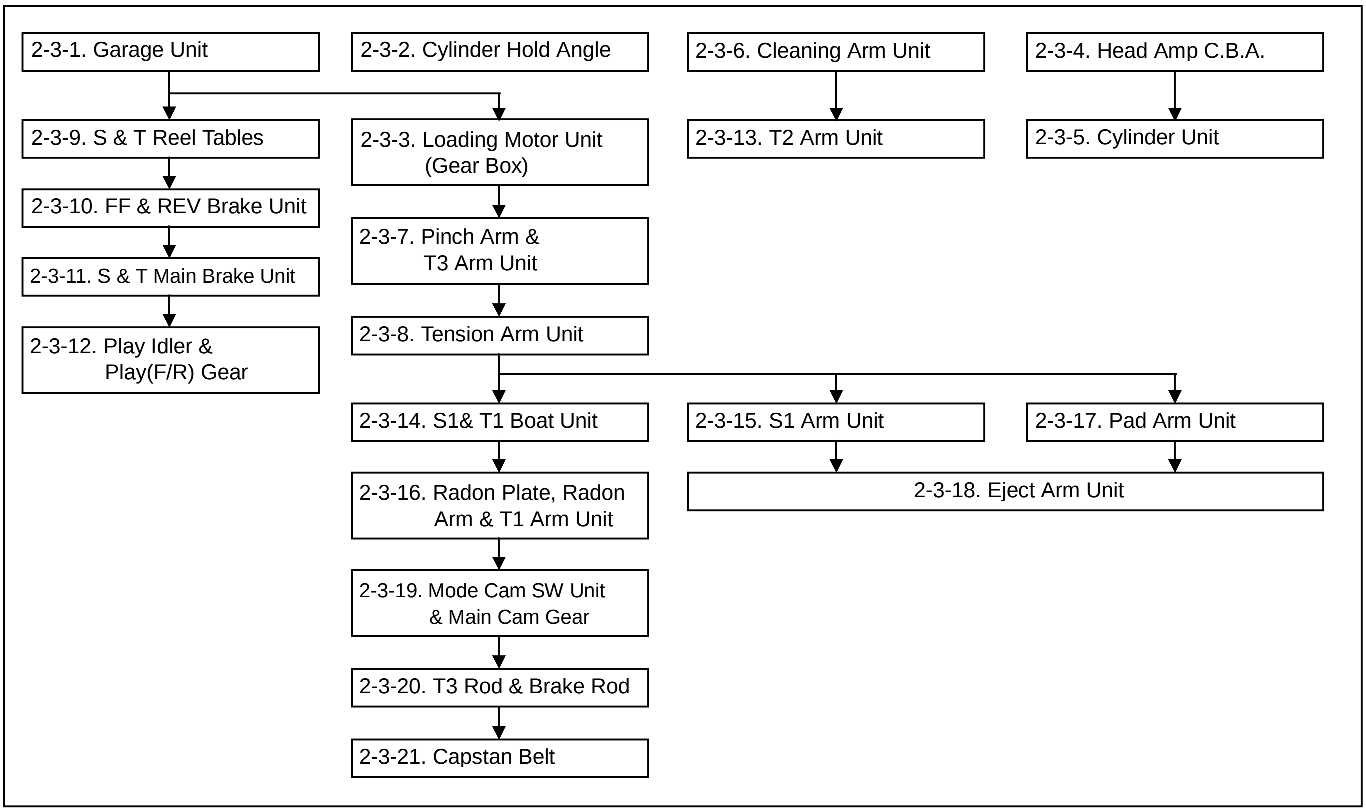

2-3-1. Garage Unit
2-3-2. Cylinder Hold Angle
2-3-6. Cleaning Arm Unit
2-3-4. Head Amp C.B.A.
2-3-9. S & T Reel Tables
2-3-3. Loading Motor Unit (Gear Box)
2-3-13. T2 Arm Unit
2-3-5. Cylinder Unit
2-3-10. FF & REV Brake Unit
2-3-7. Pinch Arm & T3 Arm Unit
2-3-11. S & T Main Brake Unit
2-3-8. Tension Arm Unit
2-3-12. Play Idler & Play(F/R) Gear
2-3-14. S1& T1 Boat Unit
2-3-15. S1 Arm Unit
2-3-17. Pad Arm Unit
2-3-16. Radon Plate, Radon Arm & T1 Arm Unit
2-3-18. Eject Arm Unit
2-3-19. Mode Cam SW Unit & Main Cam Gear
2-3-20. T3 Rod & Brake Rod
2-3-21. Capstan Belt

Figure 2-1-1

2-2. Manual Loading / Unloading

For the mechanism maintenance, loading and unloading operation can be manually performed.
In order to perform manual loading and unloading easily, use Gear Driver (VFK1266) as shown in Figure 2-2-1.

Rotate the Gear Driver clockwise or counterclockwise so that the Mode Cam Gear rotates opposite direction of the Gear Driver rotation, and then loading and unloading are performed

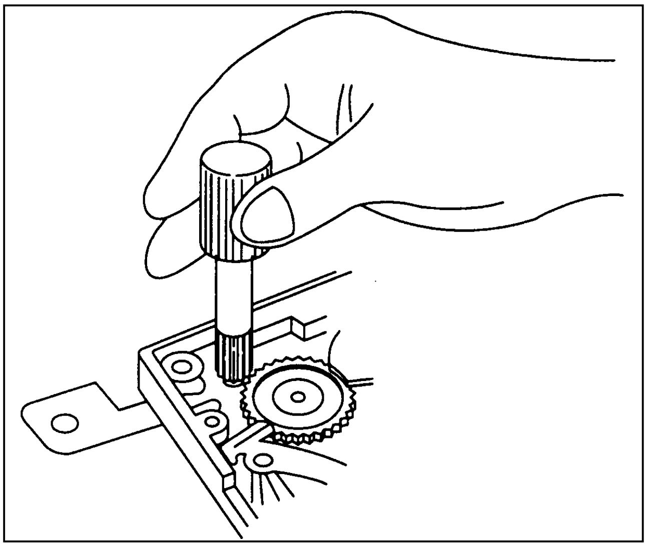


Figure 2-2-1

2-3. Disassembly Procedures

2-3-1. Garage Unit

1. Slide the Lock Lever with tweezers to eject the Garage.

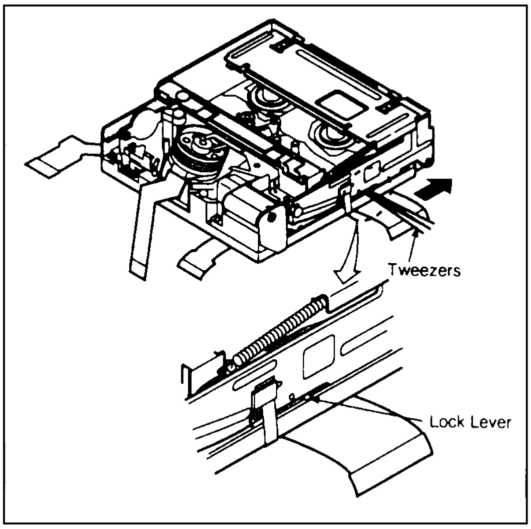

Tweezers
Lock Lever

Figure 2-3-1

(Manual Eject)
Unscrew 2 screws (A) and removes Supply and Take-up Photo Transistors from Garage Unit. Unscrew 4 screws (B) and remove the Garage Unit.

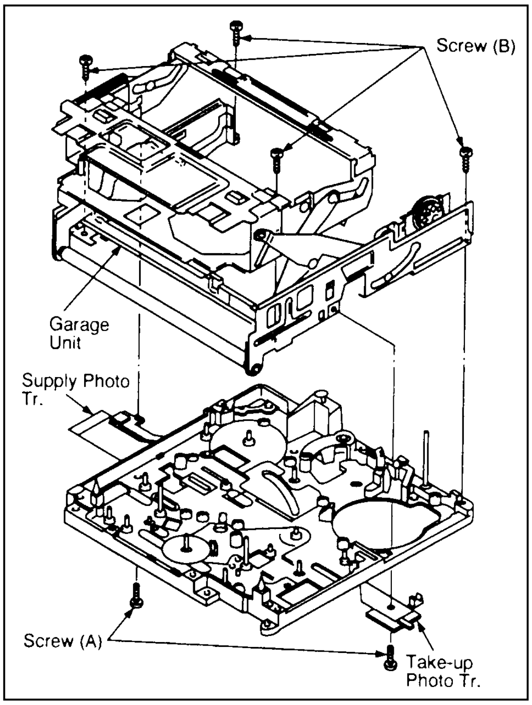

Screw (B)
Garage Unit
Supply Photo Tr.
Screw (A)
Take-up Photo Tr.

Figure 2-3-2

2-3-2. Cylinder Hold Angle

1. Unscrew 2 screws (C) and remove the Earth Brush.

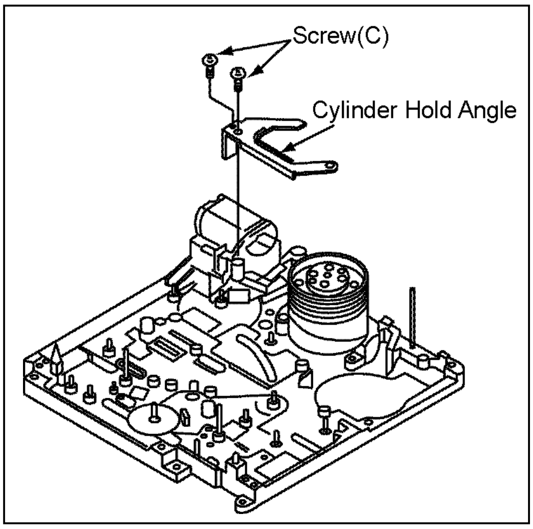

Screw(C)
Cylinder Hold Angle

Figure 2-3-3

(Note of installation)
Install the Cylinder Hold Angle so that the tip of Angle is located in the C.B.A.

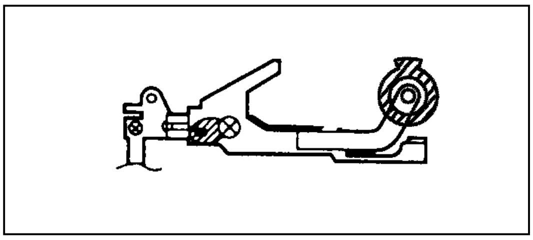


Figure 2-3-4

2-3-3. Loading Motor Unit(Gear Box)

1. Unsolder the soldered portion (D). Unscrew 2 screws (E) and remove the Loading Motor Unit.

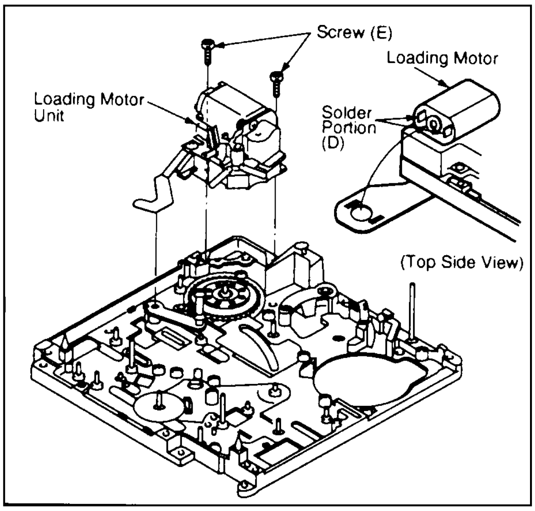

Screw (E)
Loading Motor
Loading Motor Unit
Solder Portion (D)
(Top Side View)

Figure 2-3-5

2-3-4. Head Amp C.B.A.

1 Unscrew screw (F) and remove the Capstan Cover.
2 Disconnect the connector FP5001 and unscrew 2 screws (G) and remove the Head Amp C.B.A. with shield case.
3 Unsolder the 2 solder portion and remove the shield case from Head Amp C.B.A..

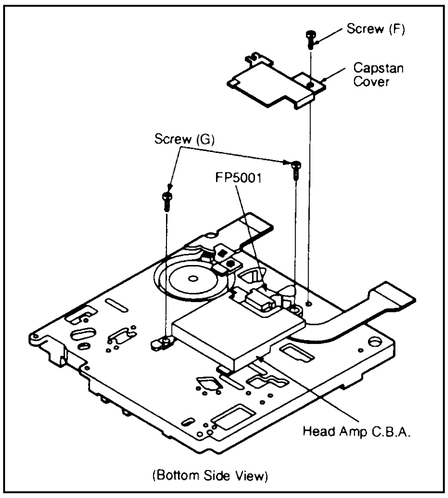

Screw (F)
Capstan Cover
Screw (G)
FP5001
Head Amp C.B.A.
(Bottom Side View)

Figure 2-3-6

2-3-5. Cylinder Unit

1. Unscrew 3 screws (H) and remove the Cylinder Unit carefully. Do not touch the Video Head.

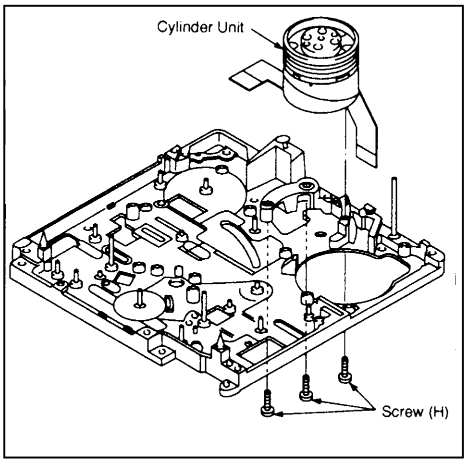

Cylinder Unit
Screw (H)

Figure 2-3-7

2-3-6. Cleaning Arm Unit

1. Unlock the locking portion of the Cleaning Arm Unit

(Note of installation)

Hooking portion of the Cleaning Arm Spring is;
Spring (a) -- Cleaning Arm spring (a')
Spring (b) -- T2 Arm Unit (b')

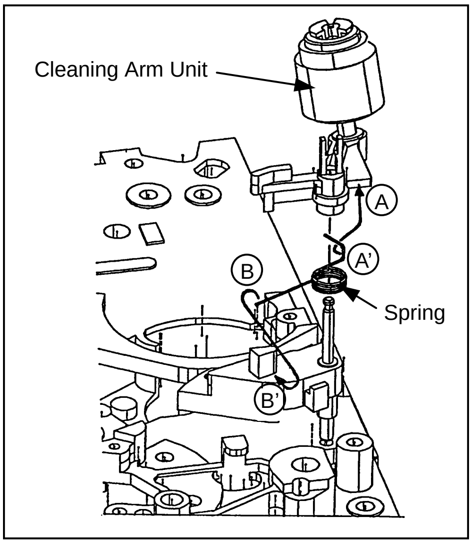

Cleaning Arm Unit
A
A'
B
Spring
B'

Figure 2-3-8

2-3-7. Pinch Arm & T3 Arm Unit

1. Unscrew screw (I), then slide the Pinch Pressure Plate and unlock the locking portion.
2. Remove the T3 Arm Unit.
3. Remove the Pinch Arm Unit and Pinch Arm Spring.

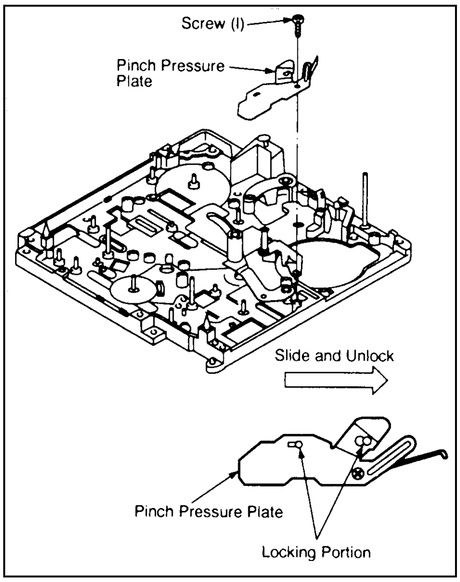

Screw (I)
Pinch Pressure Plate
Slide and Unlock
Pinch Pressure Plate
Locking Portion

Figure 2-3-9

(Note of installation with T3 Arm Unit)
After install T3 Arm Unit, the Height Adjustment is required.

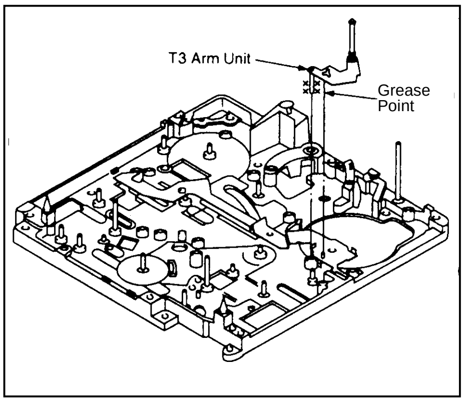

T3 Arm Unit
Grease Point

Figure 2-3-10

(Note of installation with Pinch Arm Unit)
Hooking portion of the Pinch Arm Spring is;
Spring (c) -- Pinch Arm (c')
Spring (d) -- T3 Rod (d')

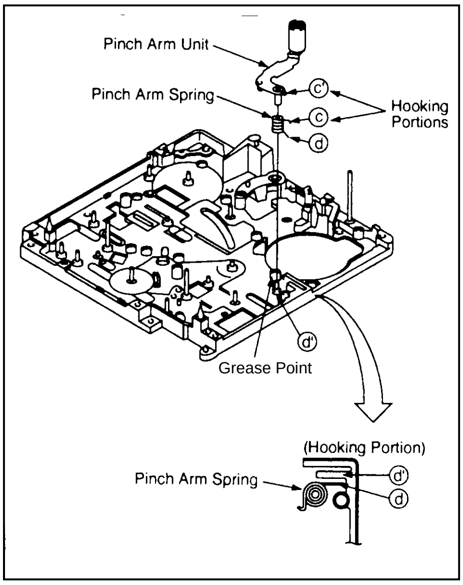

Pinch Arm Unit
Pinch Arm Spring
c'
c
d
Hooking Portions
d'
Grease Point
(Hooking Portion)
Pinch Arm Spring
d'
d

Figure 2-3-11

2-3-8. Tension Arm Unit

1. Turn the Mode Gear until Tension Arm Unit slightly move to loading direction.
2. Remove the Tension Arm Unit and Cut Washer (J).

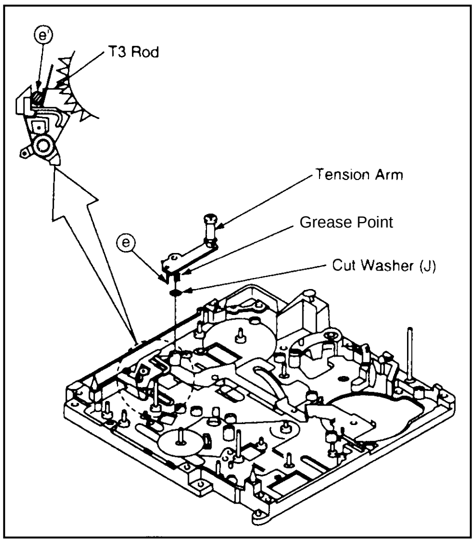

e'
T3 Rod
Tension Arm
Grease Point
e
Cut Washer (J)

Figure 2-3-12

(Note of installation)
The projection (e) on Tension should be match to guide (e') on the T3 Rod which is shifted by turning Mode Gear.

2-3-9. S & T Reel Tables

1. Unhook the hooking portion (f) and (f'). Unscrew 3 screws (K) and remove Cover Plate.

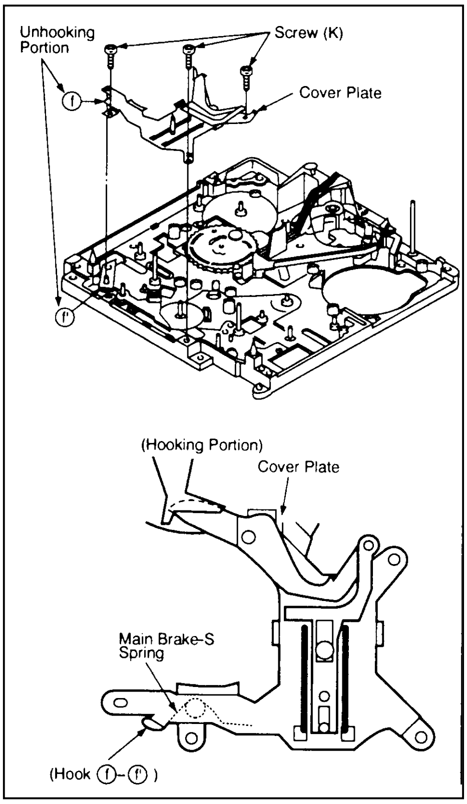

Unhooking Portion
Screw (K)
Cover Plate
f
f'
(Hooking Portion)
Cover Plate
Main Brake-S Spring
(Hook f-f')

Figure 2-3-13

2. Remove Supply and Take-up Reel Tables.

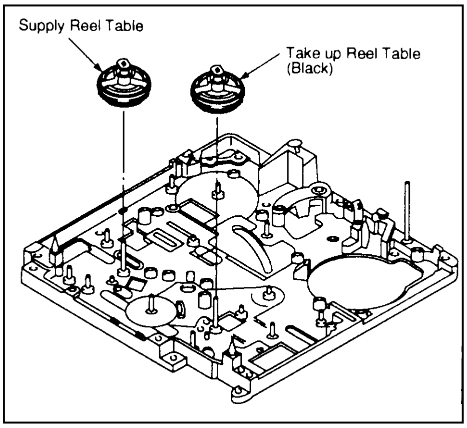

Supply Reel Table
Take up Reel Table (Black)

Figure 2-3-14

2-3-10. FF & REV Brake Unit

1. Unhook the hooking portion (g) and (g') of the Review Brake Spring and remove Review Brake.

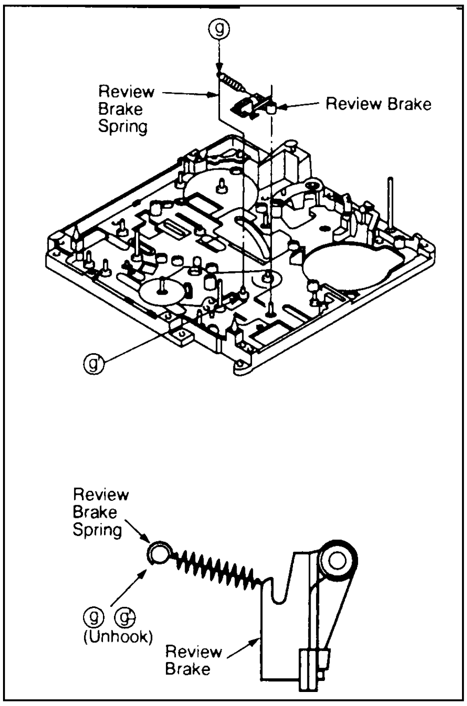

g
Review Brake Spring
Review Brake
g'
Review Brake Spring
g g'
(Unhook)
Review Brake

Figure 2-3-15

2. Remove the FF Brake and FF Brake Spring.

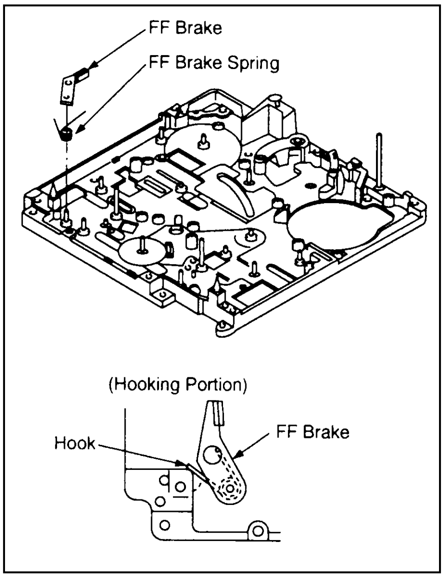

FF Brake
FF Brake Spring
(Hooking Portion)
Hook
FF Brake

Figure 2-3-16

(Note of installation)
Confirm the hooking portion of the FF Brake Spring.

2-3-11. S & T Main Brake Unit

1. Remove the Main Brake S and Main Brake-S Spring.

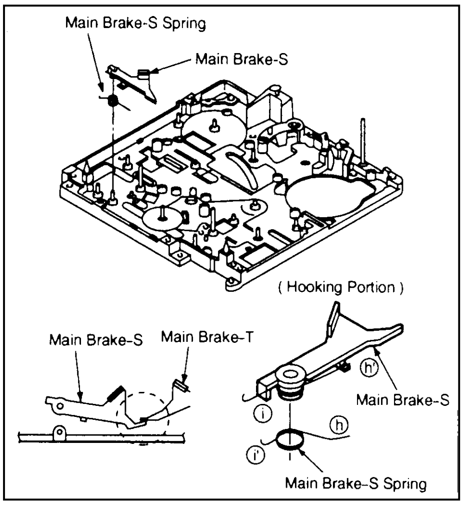

Main Brake-S Spring
Main Brake-S
(Hooking Portion)
Main Brake-S
Main Brake-T
h'
Main Brake-S
i
h
i'
Main Brake-S Spring

Figure 2-3-17

(Note of installation)
Confirm the hooking portion of the Main Brake-S Spring.

2. Remove the Cut Washer (L) and Main Brake T Unit.

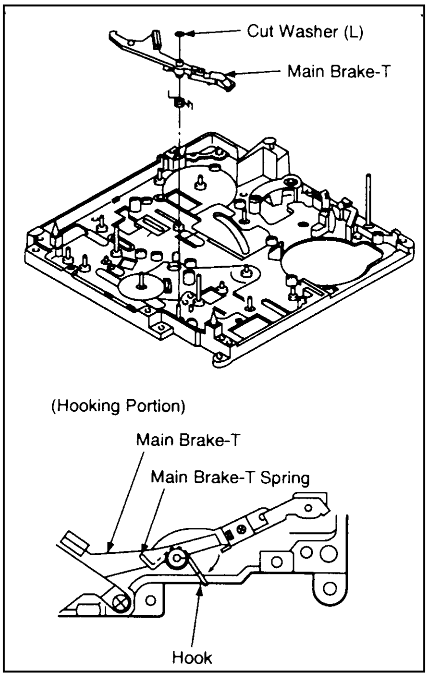

Cut Washer (L)
Main Brake-T
(Hooking Portion)
Main Brake-T
Main Brake-T Spring
Hook

Figure 2-3-18

(Note of installation)
Confirm the hooking portion of the Main Brake T Spring.

2-3-12. Play Idler & Play(F/R) Gear

1. Remove the Play Idler and Play(FF/REW) Gear.

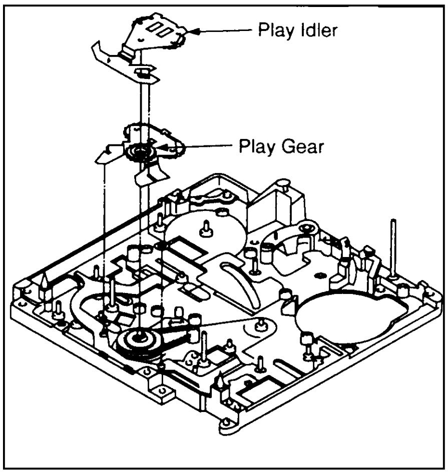

Play Idler
Play Gear

Figure 2-3-19

2-3-13. T2 Arm Unit

1. Remove the Cut Washer (M) and T2 Arm Unit with spring.

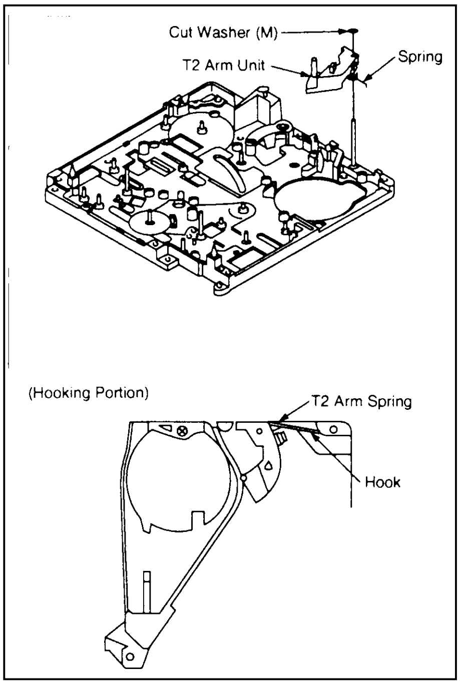

Cut Washer (M)
T2 Arm Unit
Spring
(Hooking Portion)
T2 Arm Spring
Hook

Figure 2-3-20

(Note of installation)
Confirm the hooking portion of the T2 Arm Spring.

2-3-14. S1 & T1 Boat Unit

1. Turn the Mode Gear clockwise until half loading position. Hold (N) and (O) positions on S1 and T1 Arm units and then unlock the locking portions (A) and (B) with tweezers.

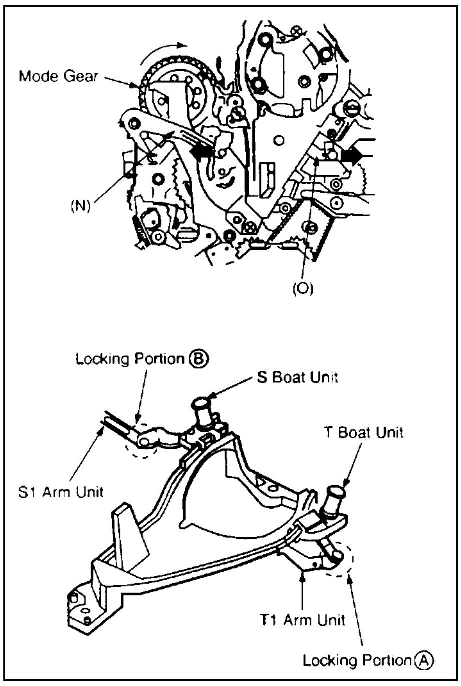

Mode Gear
(N)
(O)
Locking Portion Ⓑ
S Boat Unit
T Boat Unit
S1 Arm Unit
T1 Arm Unit
Locking Portion Ⓐ

Figure 2-3-21

2. Remove 2 screws (P) and Cylinder Base Unit with S and T Boat Units. Then remove S and T Boat Units from the Cylinder Base Unit.

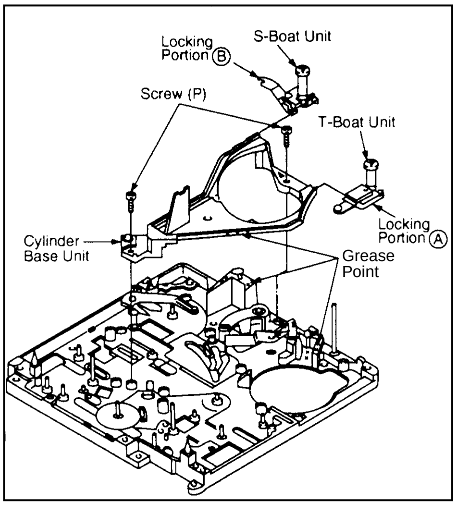

Locking Portion Ⓑ
S-Boat Unit
Screw (P)
T-Boat Unit
Locking Portion Ⓐ
Cylinder Base Unit
Grease Point

Figure 2-3-22

(Note of installation)
After install the Cylinder Base Unit move, S and T Boat to loading completed position by finger and turn the Mode Gear clockwise until half loading position. Then connect the locking portion (A) and (B).

2-3-15. S1 Arm Unit

1. Turn the Mode Gear fully clockwise. Remove the Cut Washer (Q) and S1 Arm Unit.

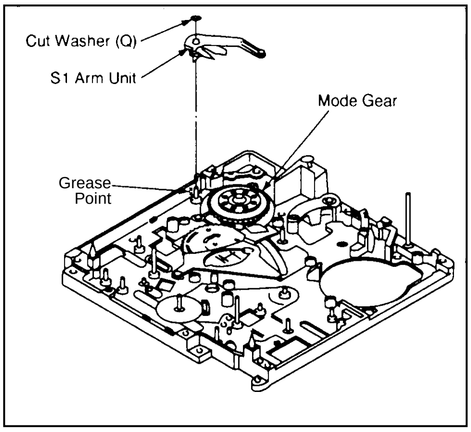

Cut Washer (Q)
S1 Arm Unit
Mode Gear
Grease Point

Figure 2-3-23

2-3-16. Radon Plate, Radon Arm & T1 Arm Unit

1. Unscrew 2 screws (R) and remove Radon Plate.

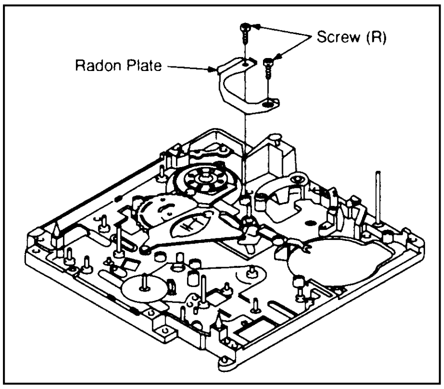

Screw (R)
Radon Plate

Figure 2-3-24

2. Unscrew screw (S) and remove Radon Arm Unit.

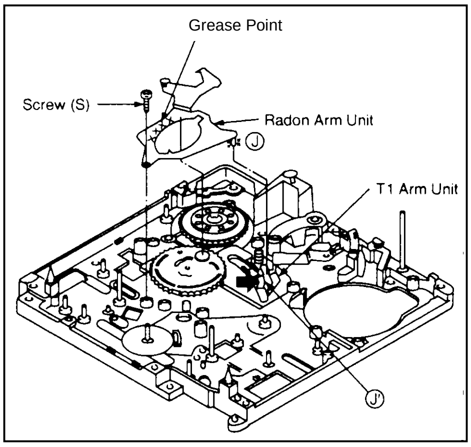

Grease Point
Screw (S)
Radon Arm Unit
Ⓙ
T1 Arm Unit
Ⓙ'

Figure 2-3-25

3. Remove the T1 Arm Unit.

(Note of installation)
When installing the T1 Arm Unit, the projection (j) on the Radon Arm Unit is aligned to guide (j') on the T1 Arm Unit by pushing the T1 Arm Unit.

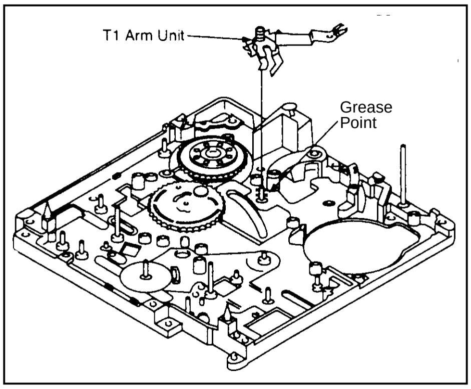

T1 Arm Unit
Grease Point

Figure 2-3-26

2-3-17. Pad Arm Unit

1. Unhook the hooking portion (k') of the Pad Arm Spring. Remove the Cut Washer (T) and Pad Arm Unit.

(Note of installation)
Confirm the hooking portion of the Pad Arm Spring (k..k').

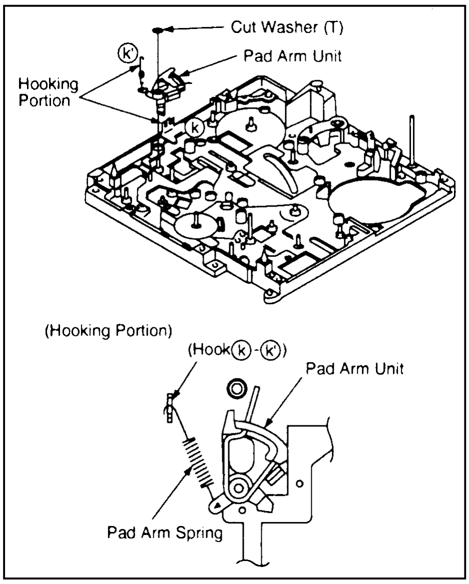

Cut Washer (T)
k'
Pad Arm Unit
Hooking Portion
k
(Hooking Portion)
(Hook k - k')
Pad Arm Unit
Pad Arm Spring

Figure 2-3-27

2-3-18. Eject Arm Unit

1. Unscrew 2 screws (U) and remove the Eject Arm Unit.

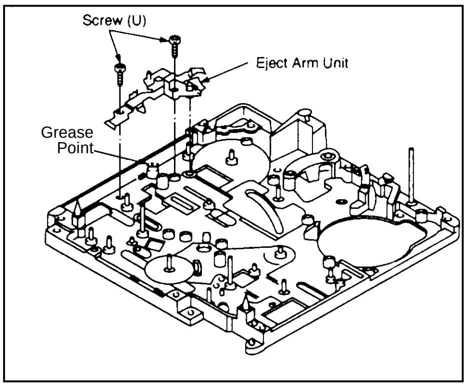

Screw (U)
Eject Arm Unit
Grease Point

Figure 2-3-28

2-3-19. Mode Cam SW Unit & Main Cam Gear

1. Remove the Main Cam Gear. Unsolder the soldered portion (l) on the Mechanism Flexible Board. Then remove the Mode Cam SW Unit(Mode Gear).

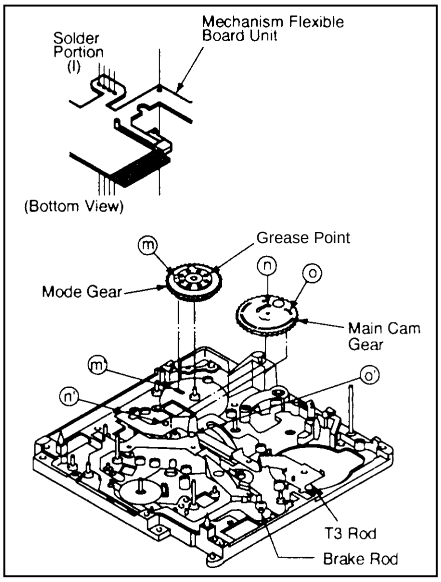

Mechanism Flexible Board Unit
Solder Portion (l)
(Bottom View)
m
Grease Point
n
o
Mode Gear
Main Cam Gear
m'
o'
n'
T3 Rod
Brake Rod

Figure 2-3-29

(Note of installation)
The projection (m) on the Mode Gear meets with the hole (m') on the Mechanism Chassis.
Push the Brake and T3 Rod in fully left direction.

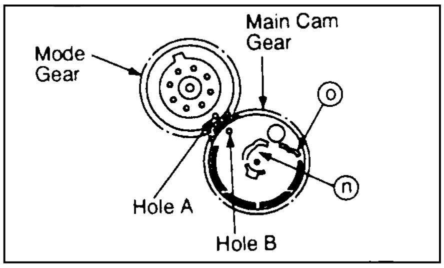

Main Cam Gear
Mode Gear
o
n
Hole A
Hole B

Figure 2-3-30

Install the Main Cam Gear so that the hole A on the Mode Gear is aligned to meet with the hole B on the Main Cam Gear.

Shift the T3 Rod slowly in the right direction until guide (n) on the Main Cam Gear meets with the projection (n') on the T3 Rod.
Shift the Brake Rod slowly in the right direction until guide (o) on the Main Cam Gear meets with the projection (o')on the brake Rod.

2-3-20. T3 Rod & Brake Rod

1. Remove the T3 Rod. The projection (p) and (q) on the T3 Rod meet with the guide (p') and (q') on the Mechanism Chassis.

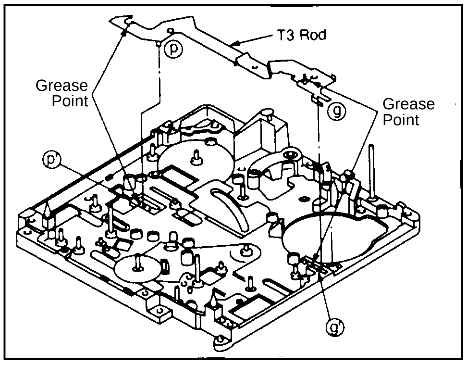

T3 Rod
p
Grease Point
q
Grease Point
p'
q'

Figure 2-3-31

2. Unscrew 2 screws (V) and remove the Brake Rod, Brake Rod Plate A and B.

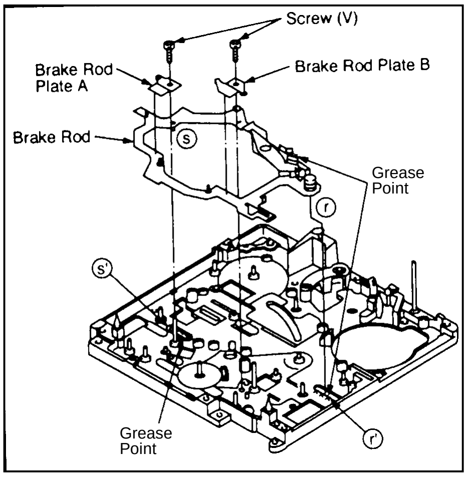

Screw (V)
Brake Rod Plate A
Brake Rod Plate B
Brake Rod
s
Grease Point
r
s'
Grease Point
r'

Figure 2-3-32

(Note of installation)
The projection (r) and (s) on the Brake Rod meet with the guide (r') and (s') on the Mechanism Chassis.

2-3-21. Capstan Belt

1. Remove the Center Gear and Washer (W). Unscrew screw (X) and remove LED Holder. Remove Cut Washer (Y).

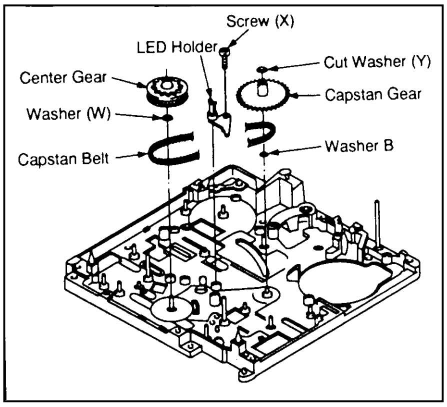

Screw (X)
LED Holder
Cut Washer (Y)
Center Gear
Capstan Gear
Washer (W)
Washer B
Capstan Belt

Figure 2-3-33

(Loosen a black screw on the Cap. Motor as shown in Fig.) Slightly lift up in the direction and slowly remove the Capstan Gear. Do not bend the Capstan Shaft.

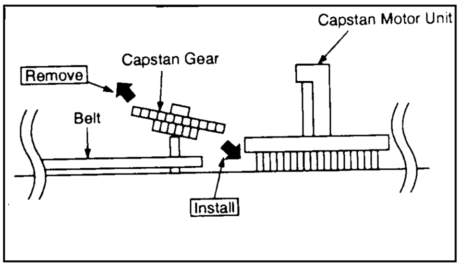

Capstan Motor Unit
Capstan Gear
Remove
Belt
Install

Figure 2-3-34

2. Remove the Capstan Belt.

(Note of installation)
After install Capstan Gear, confirm no warp of the Capstan Gear, no bend of the Capstan Gear Shaft and smooth rotation of the Capstan and Center Gear.

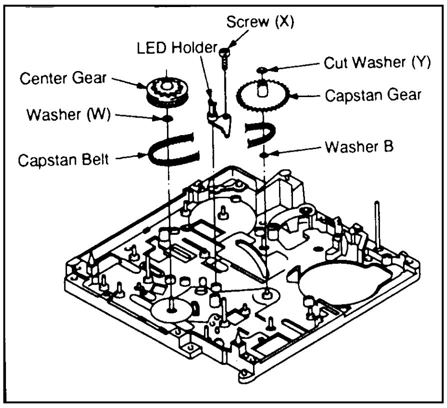

Screw (X)
LED Holder
Cut Washer (Y)
Center Gear
Capstan Gear
Washer (W)
Washer B
Capstan Belt

Figure 2-3-35

SECTION 4

ELECTRICAL ADJUSTMENT

CONTENTS

1. ADJUSTMENT SYSTEM ELE-1
    - 1-1. Modification procedure of VFK1309 .... ELE-1
    - 1-2. Connection ELE-1
    - 1-3. System Hook up Procedures ELE-2
2. REQUIRED TOOL & EQUIPMENT FOR ELECTRICAL ADJUSTMENT ELE-4
3. PC EVR (ADJUSTMENT) SOFTWARE ELE-5
    - 3-1. BOOT UP THE ADJUSTMENT SOFTWARE ELE-5
    - 3-2. How to Use the Main Menu ELE-8
    - 3-3. Introduction of the Sub Menu ELE-9
4. EEPROM ELE-11
    - 4-1. How to Save Camera All EEPROM Data ELE-11
    - 4-2. How to Save VTR All EEPROM Data ELE-12
    - 4-3. REWRITE Saved Data ELE-13
        - 4-3-1. How to Rewrite All EEPROM data on Camera C.B.A. ELE-13
        - 4-3-2. How to Rewrite All EEPROM data on VTR C.B.A. ELE-13
    - 4-4. EEPROM Data Upgrade Procedure ELE-13
        - 4-4-1. CAMERA EEPROM upgrade procedure ELE-13
        - 4-4-2. VTR EEPROM upgrade procedure ELE-15
5. HOUR METER RESET ELE-15
6. CAMERA ADJUSTMENT PROCEDURE ELE-16
    - 6-1. Hall Amp Adjustment (AUTO) ELE-16
    - 6-2. Iris PWM Adjustment (AUTO) ELE-17
    - 6-3. OISu Adjustment (AUTO) ELE-19
    - 6-4. Zoom Tracking Adjustment (AUTO) ELE-20
    - 6-5. White Balance Adjustment (AUTO) ELE-22
        - 6-5-1. Indoor (3100K) White Balance Adjustment (AUTO) ELE-22
        - 6-5-2. Outdoor (5100K) White Balance Adjustment (AUTO) ELE-23
        - 6-5-3. Cool white (4500K) White Balance Adjustment (AUTO) ELE-25
        - 6-5-4. Warm white (3600K) White Balance Adjustment (AUTO) ELE-27
    - 6-6. CCD white scratch damage revision Adjustment (AUTO) ELE-29
    - 6-7. White Shading Adjustment ELE-30
7. VTR ADJUSTMENT PROCEDURE ELE-32
    - 7-1. Sensitivity adj of Tape sensors Adjustment (AUTO) ELE-32
    - 7-2. PG shifter Adjustment (AUTO) ELE-33
    - 7-3. Luminance level Adjustment ELE-35
    - 7-4. Chroma level Adjustment ELE-35
8. LCD ADJUSTMENT PROCEDURE ELE-36
    - 8-1. PLL Adjustment ELE-36
    - 8-2. Pedestal Level Adjustment ELE-36
    - 8-3. Contrast Adjustment ELE-37
    - 8-4. Sub contrast Adjustment ELE-38
    - 8-5. White balance Adjustment ELE-39
9. EVF ADJUSTMENT PROCEDURE ELE-40
    - 9-1. EVF PLL Adjustment ELE-40
    - 9-2. EVF Contrast Adjustment ELE-40
    - 9-3. EVF Pedestal Level Adjustment ELE-41
    - 9-4. EVF Sub contrast Adjustment ELE-42
    - 9-5. EVF White balance Adjustment ELE-43
10. OTHER ADJUSTMENT PROCEDURE ELE-44
    - 10-1. ZOOM SW Center Value Ajustment ELE-44

ELECTRICAL ADJUSTMENT PROCEDURE

1. ADJUSTMENT SYSTEM

For performing the electrical adjustment, the following tool are required.

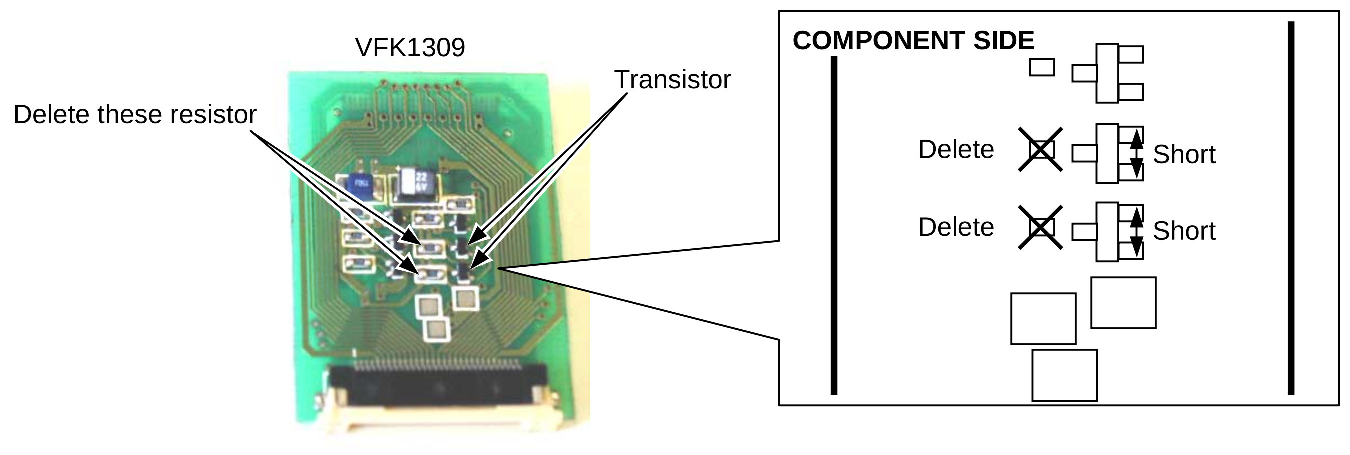
NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	NOTE
EVR Extender Board	VFK1694	1	
30pin Flat Cable	VFK1317	2	
DC Cable	VJA0941	1	
DC Cable	VJA1128 or LSJA0310	1	
9pin RS232C cross cable	---	1	
AC Adaptor	---	1	
Personal Computer	---	1	

NOTE:

1. VFK1309 can be use to this adjustment system except LCD adjustment.
2. If you have VFK1309, it can be modified to VFK1309A as following below indicated specification.

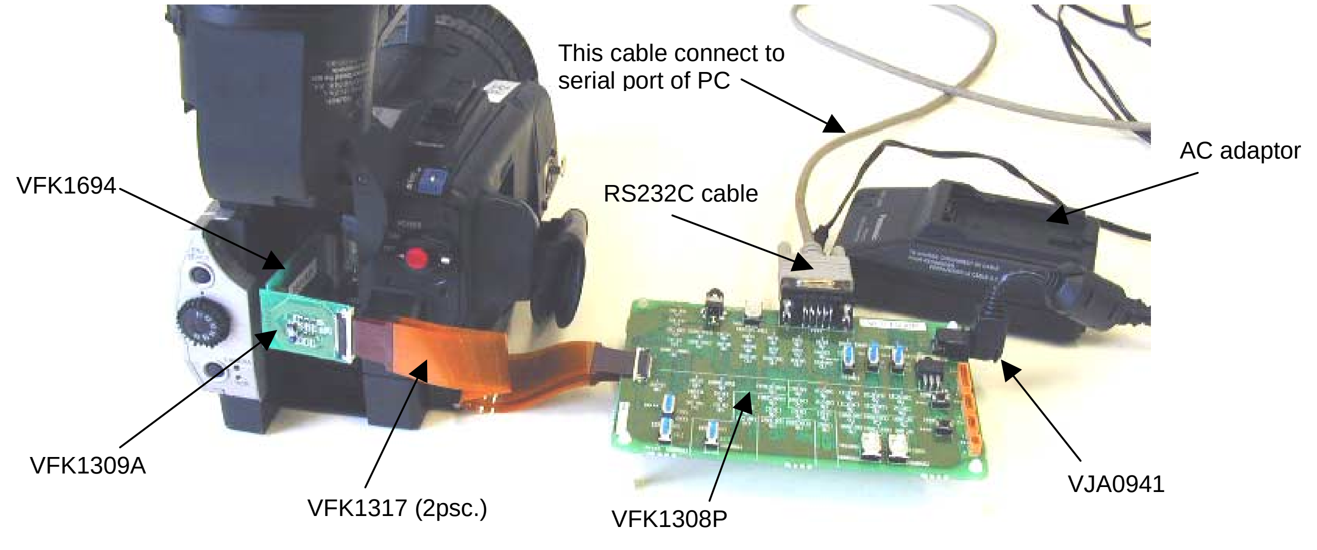
1-1. Modification procedure of VFK1309

1. Delate 2 pieces of resistor as shown figure.
2. Shot between emitter and base of 2 pieces of transistor as shown in figure.


VFK1309
Transistor
Delete these resistor
COMPONENT SIDE
Delete
Short
Delete
Short

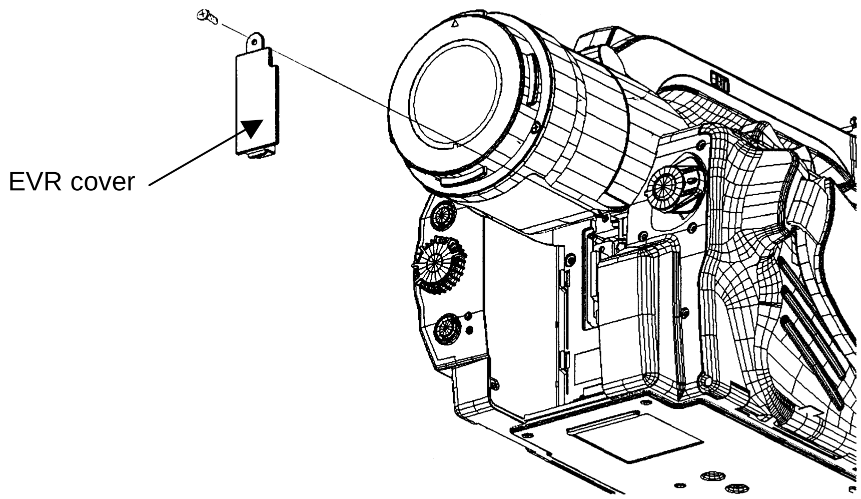
1-2. Connection

Please refer to next item 1-3 as detail explanation.

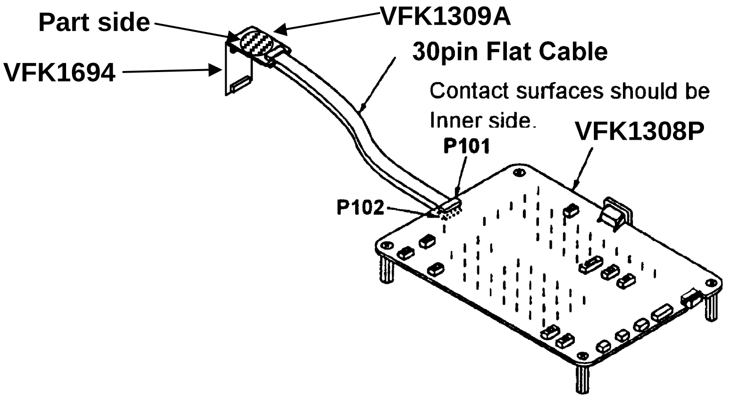

This cable connect to serial port of PC
AC adaptor
VFK1694
RS232C cable
VFK1309A
VFK1317 (2psc.)
VFK1308P
VJA0941

1-3. System Hook up Procedures

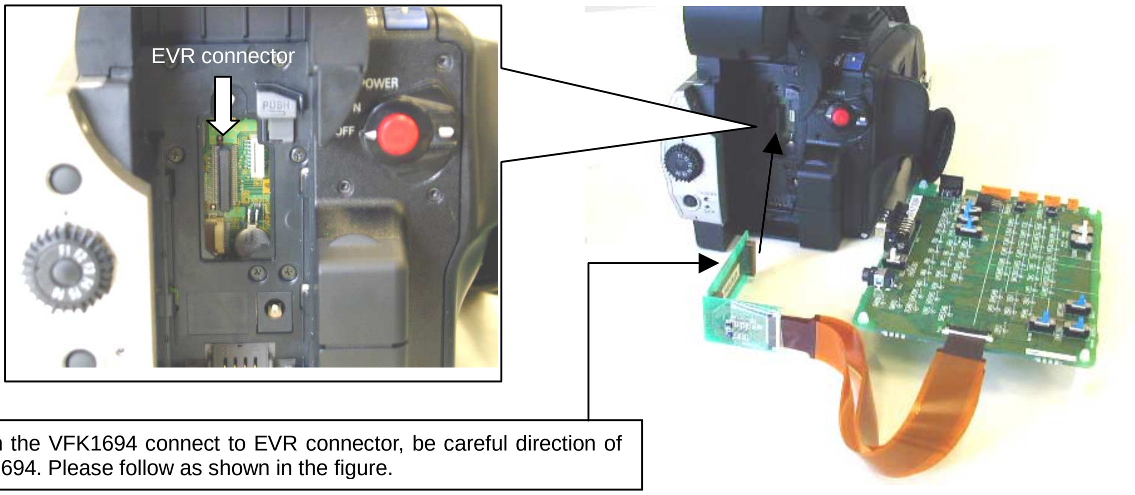
1. Unscrew 1 screw and remove the EVR cover.



2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figures. Then connect the Extender board (VFK1694).


Part side
VFK1309A
VFK1694
30pin Flat Cable
Contact surfaces should be Inner side.
P101
VFK1308P
P102

3. Connect the EVR Extender board (VFK1694) to EVR connector on EVR connect C.B.A. in camera recorder. Then make sure that the direction of the Extender Board is correct as shown in Figure.



When the VFK1694 connect to EVR connector, be careful direction of VFK1694. Please follow as shown in the figure.

4. Supply DC6V-9V to the Measuring Board (VFK1308P). Please use the DC cable (VJA0941) and AC Adaptor to supply DC voltage to Measuring Board.
5. Connect a 9 pin RS-232C cable between the Measuring Board and RS-232C connector on Personal Computer as shown in Figure.
6. Unless otherwise specified on the message of the EVR software or this adjustment procedure, set the switches on the Measuring Board as shown in the table below.

NAME	SETTING POSITION
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	NORMAL
BST TEST (SW104)	NORMAL
SW107	CENTER position
SW108	H
SW105	H
SW106	OFF
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

2. REQUIRED TOOL & EQUIPMENT FOR ELECTRICAL ADJUSTMENT

Below indicated tool are required to perform each adjustment except tools introduced item1.

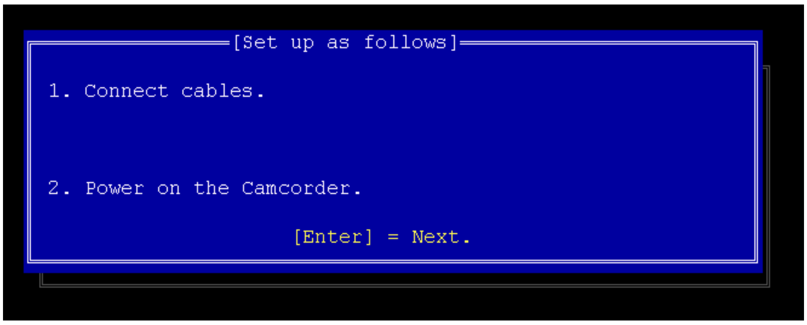
Adjustment	Item	Required Tool	Remark
Camera	Hall Amp (Auto)	Unnecessary	
	Iris PWM (Auto)	Unnecessary	
	Zoom SW center value adjustment	Unnecessary	**NOTE**
	OIS (Auto)	Unnecessary	
	Zoom Tracking (Auto)	72mm Attachment Ring (VFK1809)	
		43mm Attachment Ring (VFK1164TAR43)	
		Collimator (VFK1164TCM01)	
	White Balance (3100K)	Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (5100K)	CC filter (LB120) (VFK1347)	
		CC filter (LBA2) (VFK1884)	
		CC filter (LBB6) (VFK1888)	**NOTE**
		72mm Attachment Ring (VFK1809)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (4500K)	CC filter (LB120) (VFK1347)	NTSC model only
		CC filter (LB80) (VFK1342)	PAL model only
		CC filter (CC C20) (VFK1887)	PAL model only
		72mm Attachment Ring (VFK1809)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (3600K)	CC filter (LB40) (VFK1341)	NTSC model only
		CC filter (LBB2) (VFK1885)	NTSC model only
		CC filter (CC C10) (VFK1886)	PAL model only
		72mm Attachment Ring (VFK1809)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	CCD White scratch damage revision (Auto)	Unnecessary	
	White Shading	Halogen lamp	
VTR	Sensitivity adj of Tape sensor (Auto)	Tape End/Beg. Sensor Cassette (VFK1217)	
	PG Shifter (Auto)	Oscilloscope	
		DV Color bar Alignment Tape (VFM3010EDS)	NTSC model only
		DV Color bar Alignment Tape (VFM3110EDS)	PAL model only
	Luminance Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
	Chroma Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
LCD	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	
EVF	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	

NOTE: The Zoom SW center value adjustment is contained in Camera adjustment menu but it is not the adjustment of the camera system. The LBB6 is the compatible article of 80D. The cc filter 80D is made by Kodak, which was introduced with the AG-DVX100/DVC80/DVC180 service manual. Being supplying LBB6(VFK1888) as service tool, which is made from Fuji film, either can be used LBB6 and 80D for White Balance (5100K) adjustment.

3. PC EVR (ADJUSTMENT) SOFTWARE

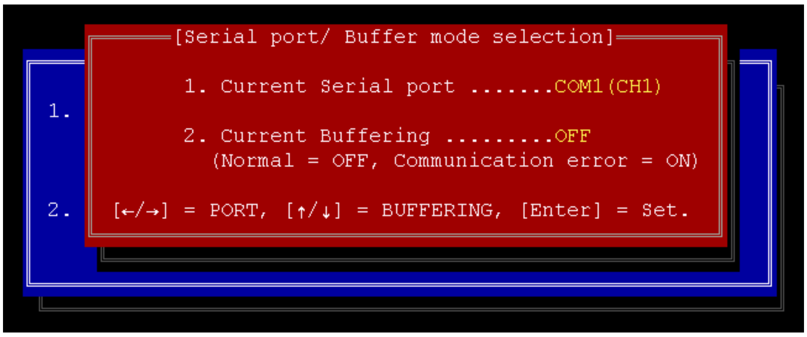
3-1. BOOT UP THE ADJUSTMENT SOFTWARE

1. Copy all files of EVR software (VFK1811B:NTSC / VFK1840A:PAL) to created directly on PC.
2. Restart the PC in DOS mode.
3. Type **"DVX100"** and press ENTER key, then EVR software boot up.
4. Wait for a few seconds so that the EVR adjustment program is started.



```
[Set up as follows]
1. Connect cables.

2. Power on the Camcorder.
                    [Enter] = Next.
```

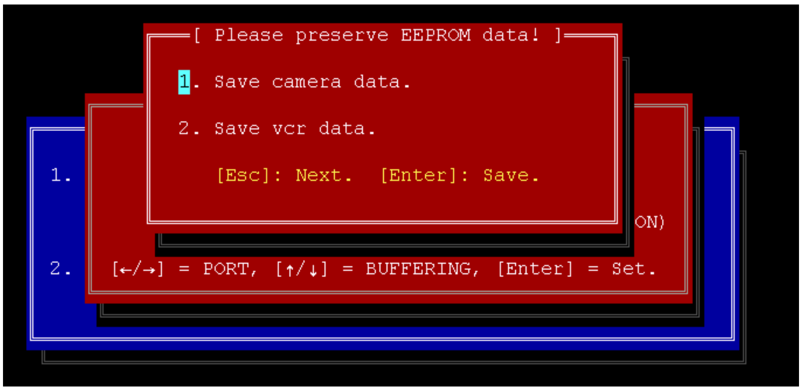
PRESS ENTER KEY



```
[Serial port/ Buffer mode selection]
1.      1. Current Serial port .......COM1(CH1)

        2. Current Buffering .........OFF
          (Normal = OFF, Communication error = ON)

2.  [←/→] = PORT, [↑/↓] = BUFFERING, [Enter] = Set.
```

PRESS ENTER KEY

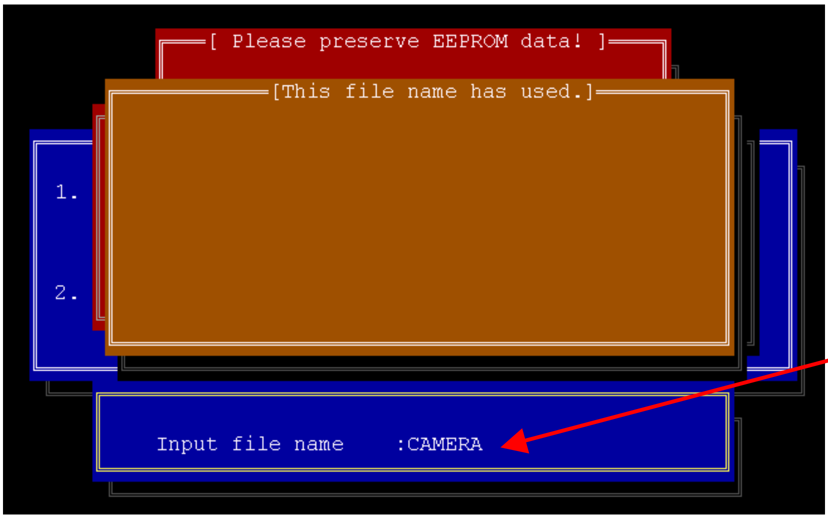
NOTE:
In case of communication error occurred in DOS mode, please try to boot an EVR software in MS-DOS WINDOWS screen.



```
[ Please preserve EEPROM data! ]
1. Save camera data.

2. Save vcr data.

   [Esc]: Next.  [Enter]: Save.
                                      ON)
2.  [←/→] = PORT, [↑/↓] = BUFFERING, [Enter] = Set.
```

Normally this screen is appeared. We recommended store the EEPROM data before start adjustment. If you want to skip store the data, PRESS ESC KEY, then goes to Main menu.

In case of select No.1

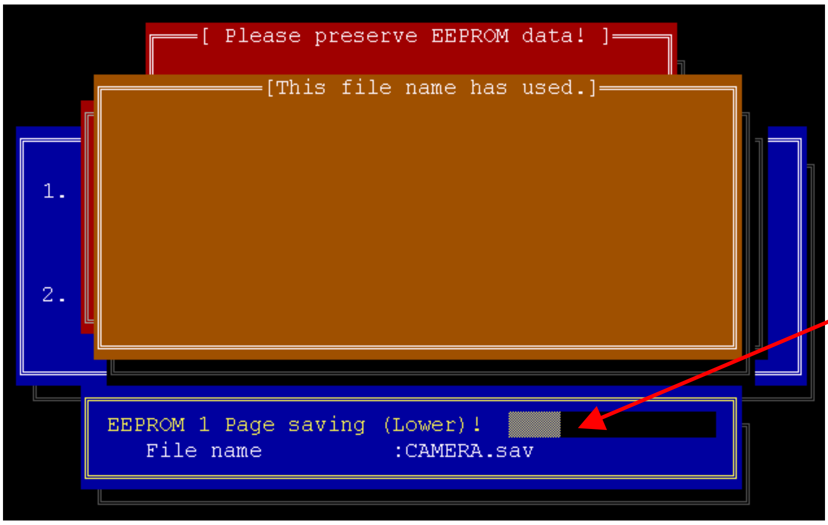


[Please preserve EEPROM data!]

[This file name has used.]

Input file name :CAMERA

Input file name and PRESS ENTER KEY.

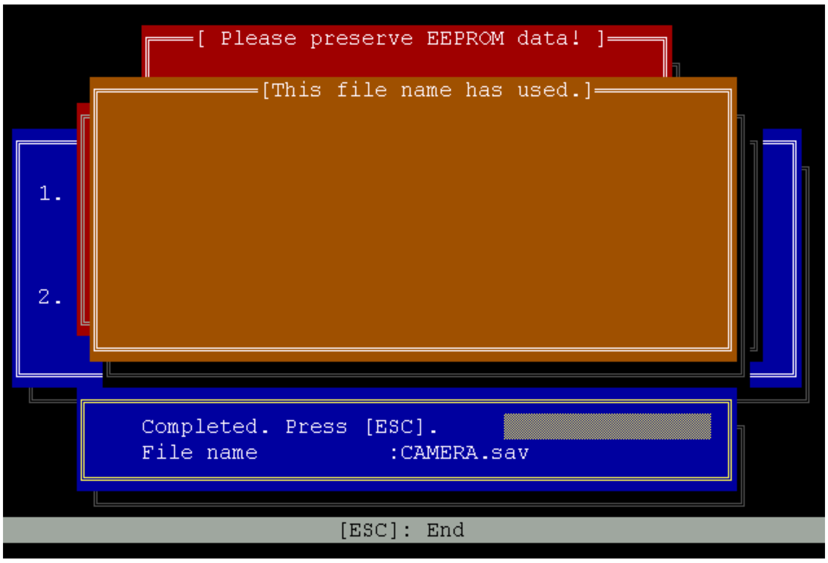


[Please preserve EEPROM data!]

[This file name has used.]

EEPROM 1 Page saving (Lower)!
File name :CAMERA.sav

Saving the data is started.



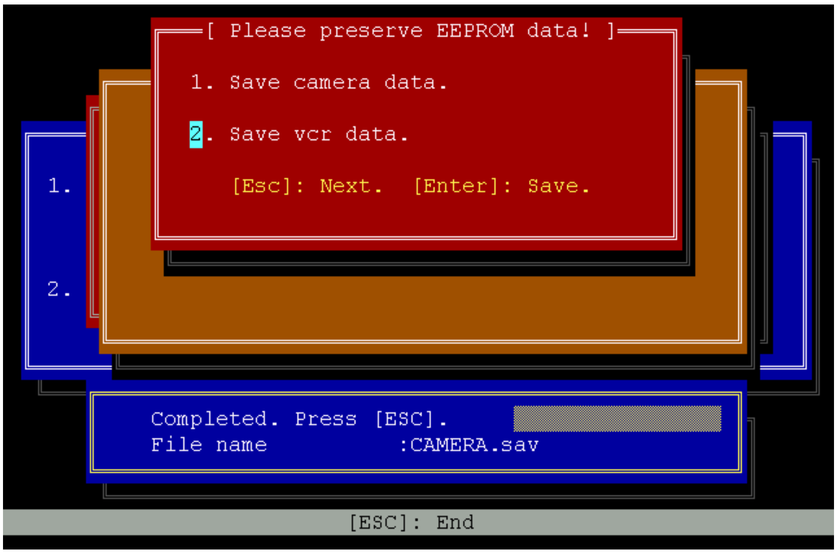
[Please preserve EEPROM data!]

[This file name has used.]

Completed. Press [ESC].
File name :CAMERA.sav

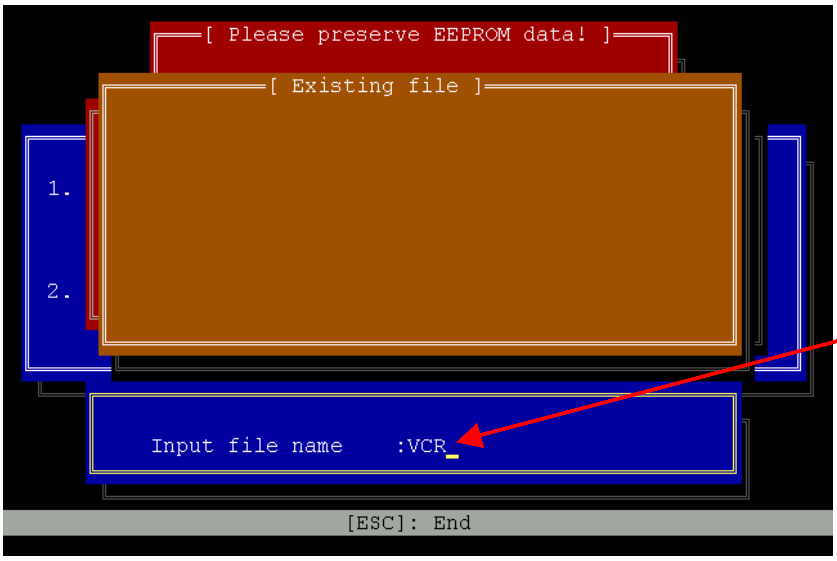
[ESC]: End

When the data is stored completed, this screen is appeared. PRESS ESC KEY.



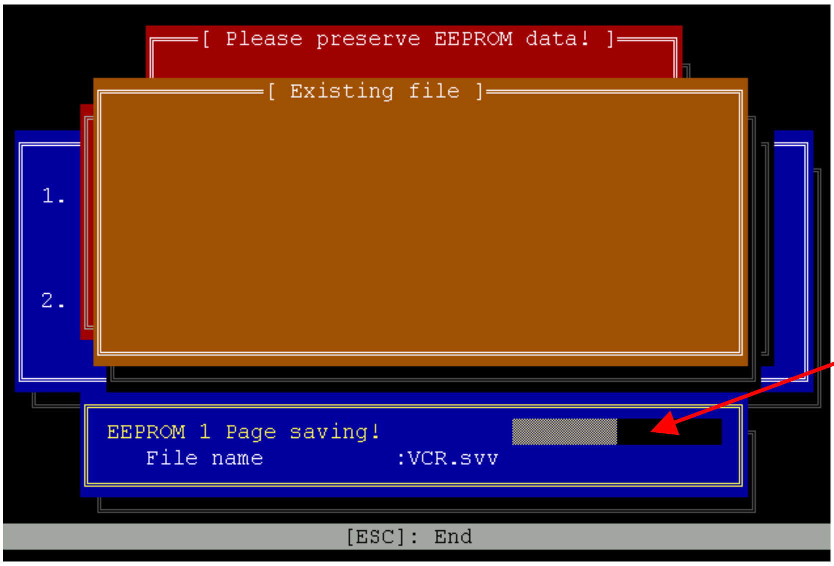
```
[ Please preserve EEPROM data! ]
1. Save camera data.
2. Save vcr data.
   [Esc]: Next.  [Enter]: Save.

Completed. Press [ESC].
File name            :CAMERA.sav
```

Return to this screen and in case of select No.2. PRESS ENTER KEY.



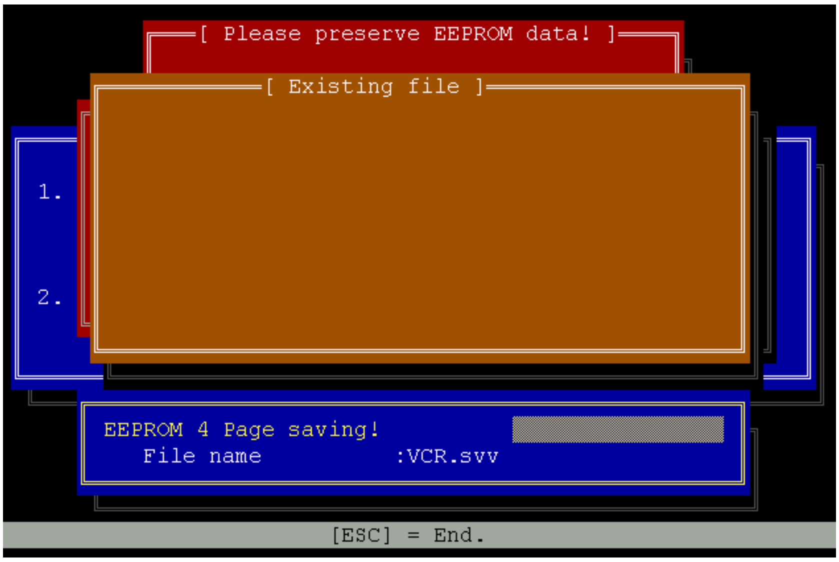
```
[ Please preserve EEPROM data! ]
[ Existing file ]

Input file name      :VCR_
```

Input file name and PRESS ENTER KEY.



```
[ Please preserve EEPROM data! ]
[ Existing file ]

EEPROM 1 Page saving!
   File name            :VCR.svv
```

Saving the data is started.


[Please preserve EEPROM data!]
[Existing file]
1.
2.
[ESC] = End.

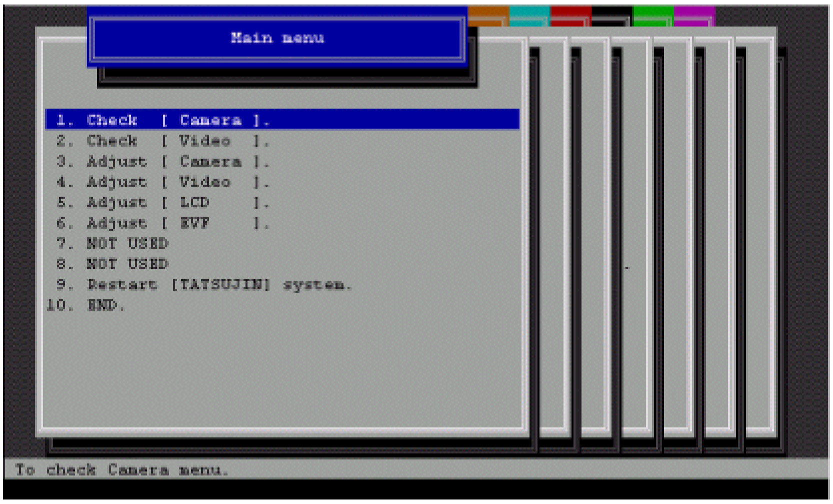
```
EEPROM 4 Page saving!
  File name          :VCR.svv
```

When the data is stored completed, this screen is appeared. PRESS ESC KEY.

3-2. How to Use the Main Menu

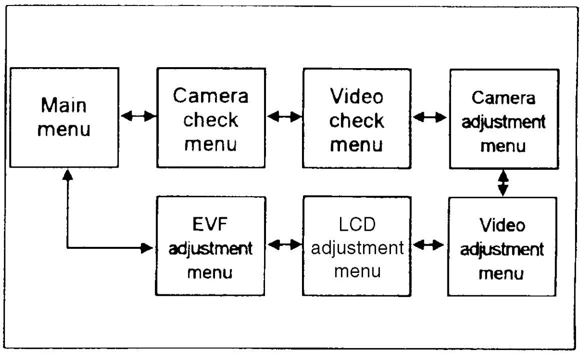
Select a Sub Menu to check, adjust the unit and etc. by pressing ↑↓ (UP/DOWN) Key in Main Menu. Then press **"ENTER"** Key. the Sub Menu will be displayed.

NOTE: Menu (pages) 3,4,5 and 6 are needed for adjustment.


Main menu
1. Check [Camera].
2. Check [Video].
3. Adjust [Camera].
4. Adjust [Video].
5. Adjust [LCD].
6. Adjust [EVF].
7. NOT USED
8. NOT USED
9. Restart [TATSUJIN] system.
10. END.

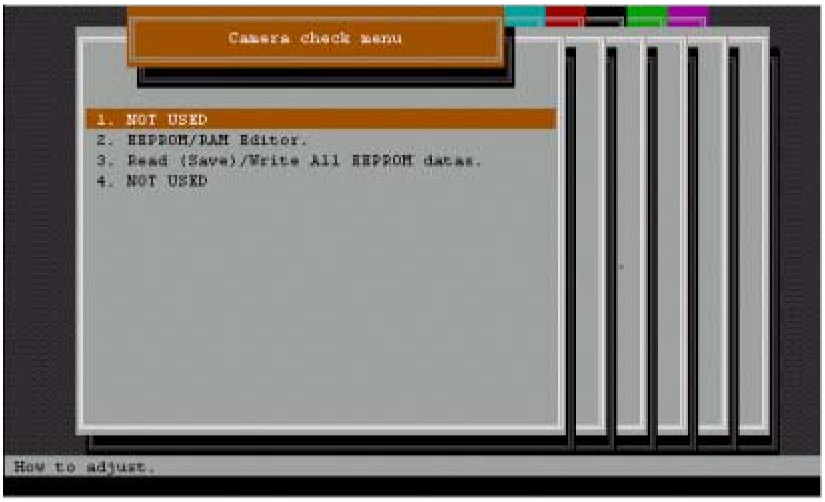
```
To check Camera menu.
```

With using ←→ keys, also the menu can be changed.


Main menu
Camera check menu
Video check menu
Camera adjustment menu
Video adjustment menu
LCD adjustment menu
EVF adjustment menu

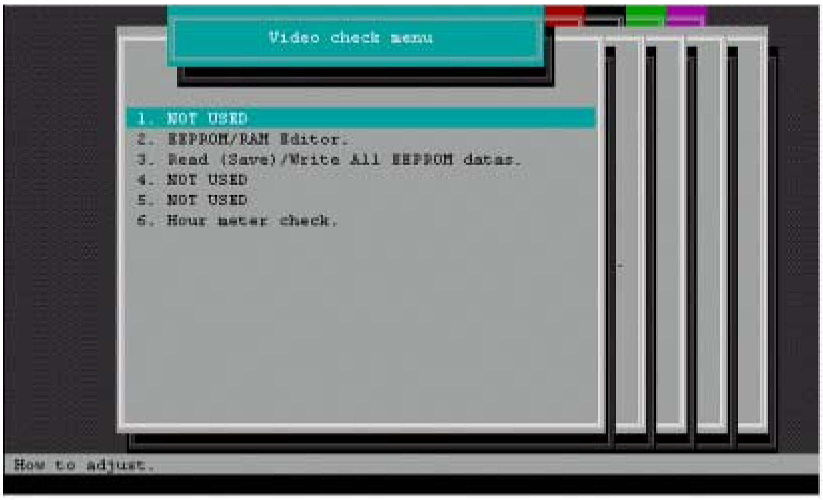
3-3. Introduction of the Sub Menu

1) Camera Check Menu



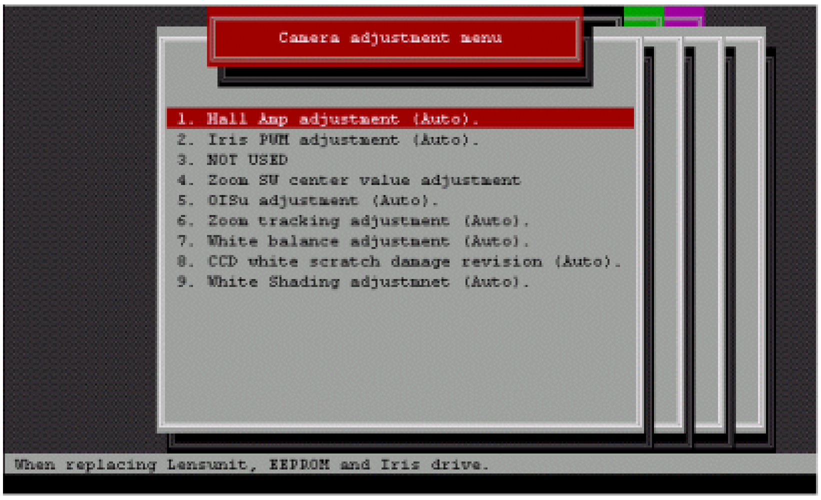
```
Camera check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED

How to adjust.
```

2) Video Check Menu



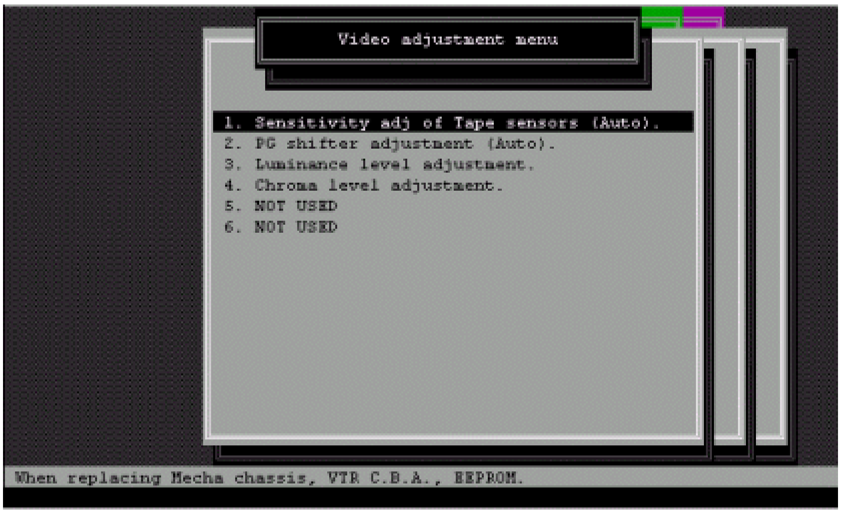
```
Video check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
5. NOT USED
6. Hour meter check.

How to adjust.
```

3) Camera Adjustment Menu



```
Camera adjustment menu

1. Hall Amp adjustment (Auto).
2. Iris PWM adjustment (Auto).
3. NOT USED
4. Zoom SW center value adjustment
5. OISu adjustment (Auto).
6. Zoom tracking adjustment (Auto).
7. White balance adjustment (Auto).
8. CCD white scratch damage revision (Auto).
9. White Shading adjustmnet (Auto).

When replacing Lensunit, EEPROM and Iris drive.
```

4) Video Adjustment Menu

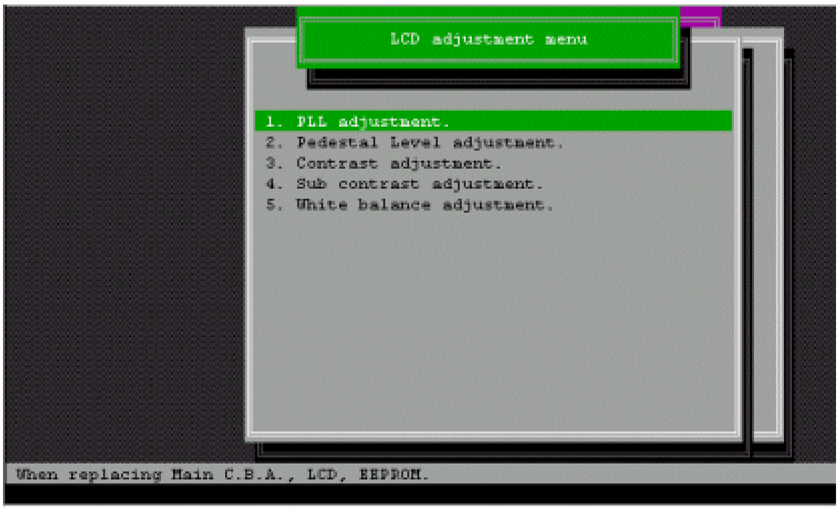


Video adjustment menu

1. Sensitivity adj of Tape sensors (Auto).
2. PG shifter adjustment (Auto).
3. Luminance level adjustment.
4. Chroma level adjustment.
5. NOT USED
6. NOT USED

When replacing Mecha chassis, VTR C.B.A., EEPROM.

5) LCD Adjustment Menu

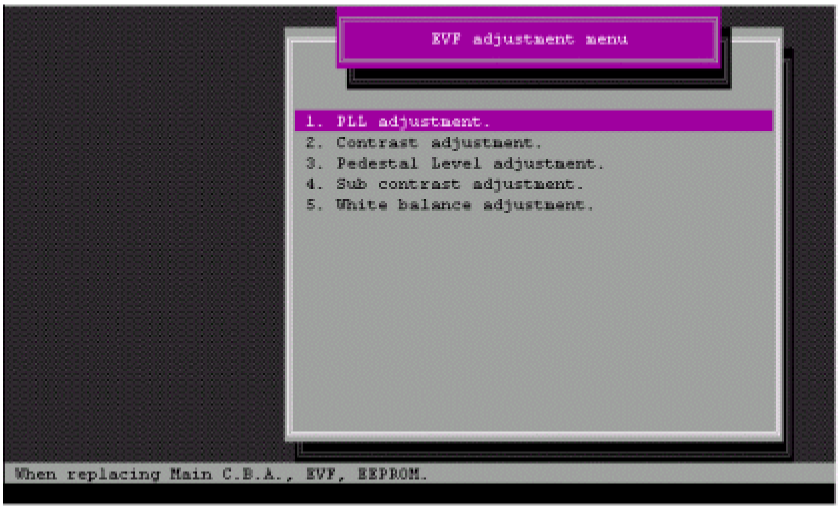


LCD adjustment menu

1. PLL adjustment.
2. Pedestal Level adjustment.
3. Contrast adjustment.
4. Sub contrast adjustment.
5. White balance adjustment.

When replacing Main C.B.A., LCD, EEPROM.

6) EVF Adjustment Menu



EVF adjustment menu

1. PLL adjustment.
2. Contrast adjustment.
3. Pedestal Level adjustment.
4. Sub contrast adjustment.
5. White balance adjustment.

When replacing Main C.B.A., EVF, EEPROM.

4. EEPROM

All adjustment data has been stored in the EEPROM.
There are two EEPROM in this camera recorder as shown in the table below.

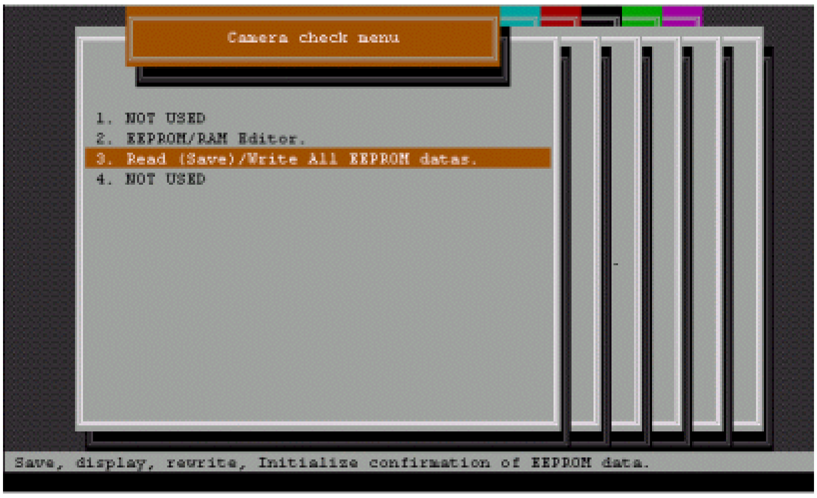
NAME	REF. No.
CAMERA EEPROM	IC307 (CAMERA C.B.A.)
VTR EEPROM	IC2008 (VTR C.B.A.)

NOTE:
Some information such as the hour meter also have been stored in the EEPROM. Which information stored in EEPROM, refer to item “7-2. EEPROM Data" in section 1. And the contents of these items 4-1, 4-2 and 4-3, which mentioned about how to save and write all EEPROM data.

NOTE:
Be sure to save both the EEPROM data into the personal computer before performing service and adjustment, in order to avoid any accidental data loss.

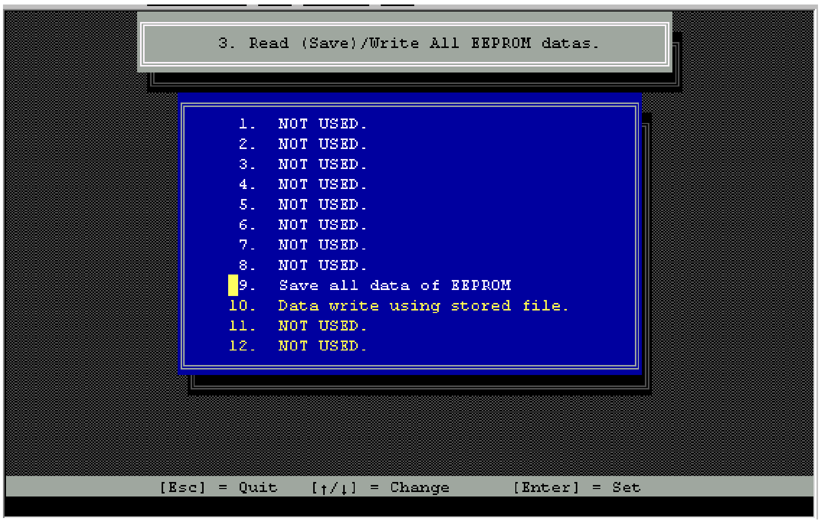
4-1. How to Save Camera All EEPROM Data

1. Select **“Camera Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Camera check menu, and then press the **“Enter”** key.


Camera check menu
1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED

Save, display, rewrite, Initialize confirmation of EEPROM data.

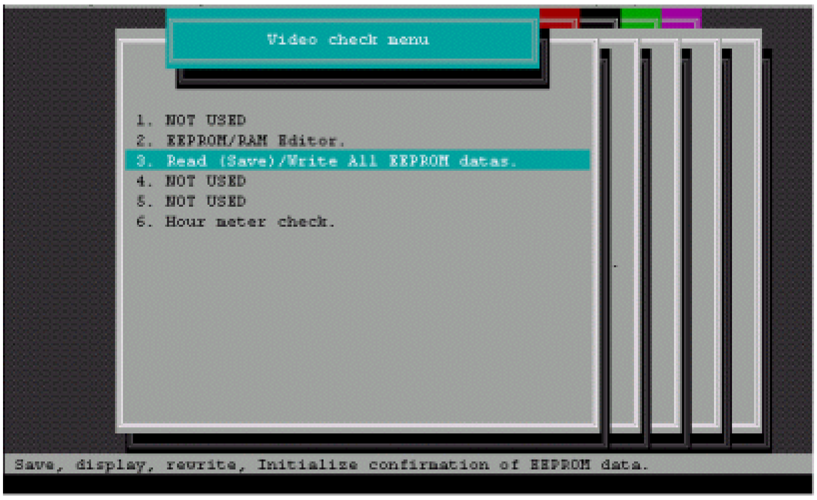
3. Select **“9. Save all data of EEPROM”** in **“3. Read (Save) / Write All EEPROM datas”** menu, and then press the **“Enter”** key.


3. Read (Save)/Write All EEPROM datas.
1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NOT USED.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. Save all data of EEPROM
10. Data write using stored file.
11. NOT USED.
12. NOT USED.
[Esc] = Quit
[↑/↓] = Change
[Enter] = Set

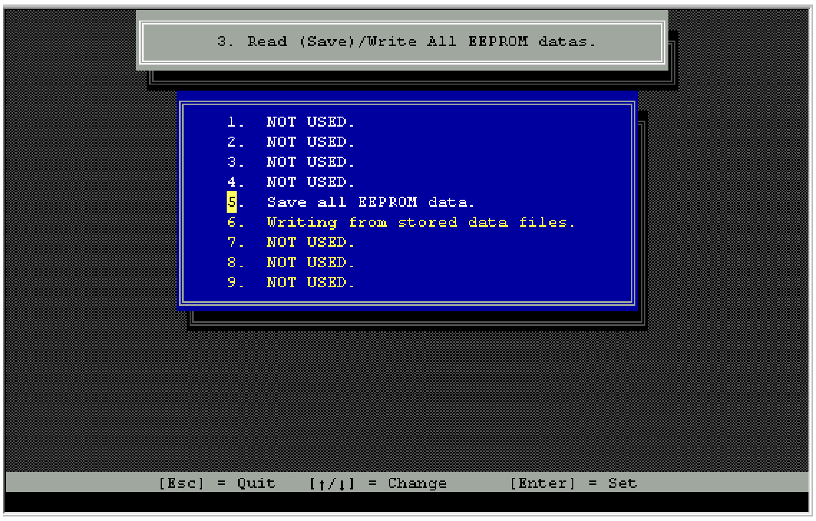
4. Type the File name and, then press the **“Enter”** key. The data of EEPROM (IC307) can be stored in the personal computer. (Please refer to item **“3-1. BOOT UP THE ADJUSTMENT SOFTWARE”**)

4-2. How to Save VTR All EEPROM Data

1. Select **“Video Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Video check menu, and then press the **“Enter”** key.


Video check menu
1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
5. NOT USED
6. Hour meter check.
Save, display, rewrite, Initialize confirmation of EEPROM data.

3. Select **“5. Save all EEPROM data”** in **“3. Read (Save) / Write All EEPROM datas”** menu, and then press the **“Enter”** key.


3. Read (Save)/Write All EEPROM datas.
1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. Save all EEPROM data.
6. Writing from stored data files.
7. NOT USED.
8. NOT USED.
9. NOT USED.
[Esc] = Quit [↑/↓] = Change [Enter] = Set

4. Type the File name, and then press the **“Enter”** key. The data of EEPROM (IC2008) will be stored in the personal computer.

4-3. REWRITE Saved Data

When Camera or VTR C.B.A. is replaced, It becomes impossible to adjustment or repairing during service operation, rewrite the saved data which is stored in EEPROM as follows. And readjust.

4-3-1. How to Rewrite All EEPROM data on Camera C.B.A.

1. Select **“Camera Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Camera check menu, and then press the **“Enter”** key.
3. Select **“10. Data write using stored file”** in **“3. Read (Save) / Write All EEPROM datas”** menu, and then press the **“Enter”** key.
4. Type the saved file name, and then press the **“Enter”** key.
5. Select **“9. EEPROM ALL (2 Kbyte)”**, and then press the **“Enter”** key.
6. The data can be written in EEPROM (IC307).

4-3-2. How to Rewrite All EEPROM data on VTR C.B.A.

1. Select **“Video Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Video check menu, and then press the **“Enter”** key.
3. Select **“6. Writing from the stored data files”** in the **“3. Read (Save) / Write All EEPROM datas”** menu, and then press **“Enter”** key.
4. Type the saved file name, and then press the **“Enter”** key.
5. Select **“5. Write EEPROM (1024 byte)”**, and then press the **“Enter”** key.
6. The data can be written in EEPROM (IC2008).

4-4. EEPROM Data Upgrade Procedure.

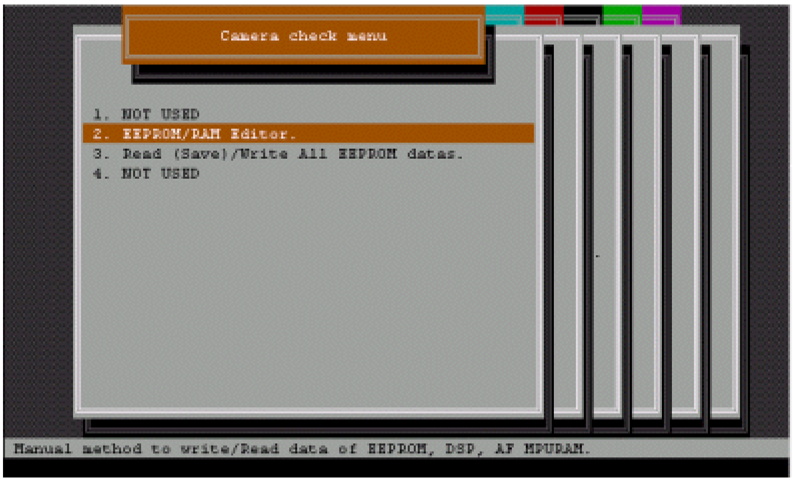
EEPROM data can be changed individuality to upgrade. In case of EEPROM data have to changed for improvement of some functions. Technical bulletin described address and data as indicated as below table.

-	-	VSI3983B (Ver12)	VSI3983D (Ver14)
1	Address	0542	
	Data	70	FF
2	Address	00ED	
	Data	12	14

NOTE: Before up-grade the Camera or VTR EEPROM, be sure to save ALL EEPROM data into the personal computer to avoid any accidental data loss. Regarding the saving method, refer to item 4-1 and 4-2 in this section.

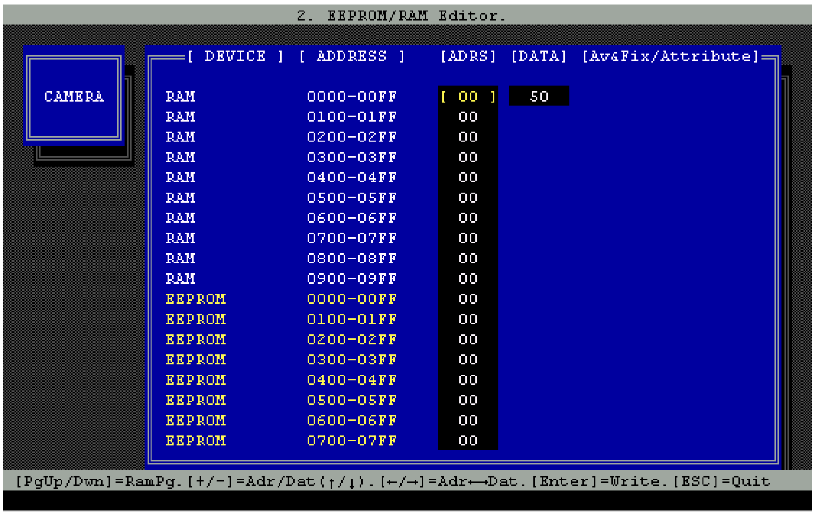
4-4-1. CAMERA EEPROM upgrade procedure

1. Boot up EVR software and open the Camera check menu.
2. Select **“2. EEPROM/RAM Editor”** and press **“ENTER”** key.



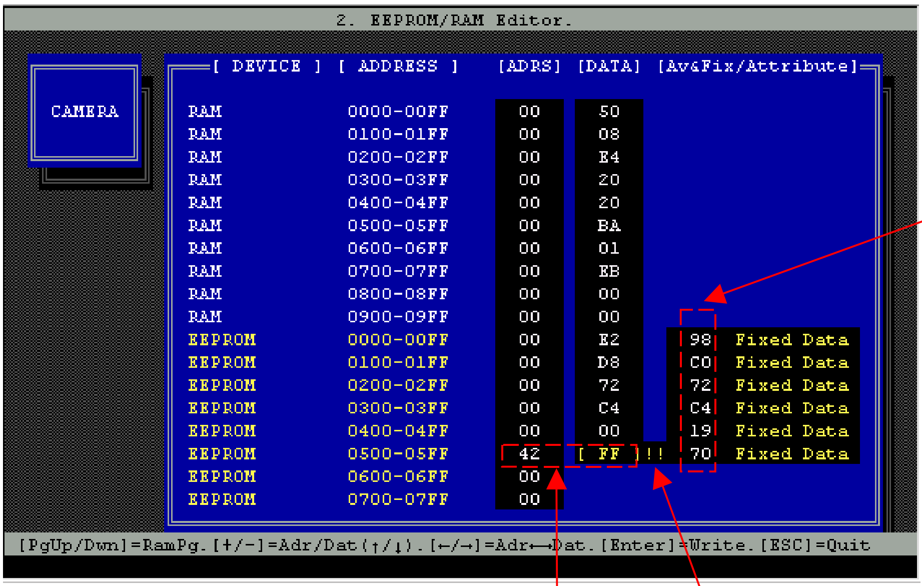
Manual method to write/Read data of EEPROM, DSP, AF MPURAM.

3. Below indicated screen is displayed.



```
                         2. EEPROM/RAM Editor.

 CAMERA     [ DEVICE ] [ ADDRESS ]    [ADRS] [DATA] [Av&Fix/Attribute]

            RAM          0000-00FF    [ 00 ]   50
            RAM          0100-01FF      00
            RAM          0200-02FF      00
            RAM          0300-03FF      00
            RAM          0400-04FF      00
            RAM          0500-05FF      00
            RAM          0600-06FF      00
            RAM          0700-07FF      00
            RAM          0800-08FF      00
            RAM          0900-09FF      00
            EEPROM       0000-00FF      00
            EEPROM       0100-01FF      00
            EEPROM       0200-02FF      00
            EEPROM       0300-03FF      00
            EEPROM       0400-04FF      00
            EEPROM       0500-05FF      00
            EEPROM       0600-06FF      00
            EEPROM       0700-07FF      00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

4. In case of data is change to FF from 70 on address 0542, select a line **"EEPROM 0500-05FF"** by arrow key (↑/↓) and input a value as 42 to column [ADRS]. Next cursor is moved to column [DATA] by arrow key (→/←) and input a value as FF. And press ENTER key to write to EEPROM.



```
                         2. EEPROM/RAM Editor.

 CAMERA     [ DEVICE ] [ ADDRESS ]    [ADRS] [DATA] [Av&Fix/Attribute]

            RAM          0000-00FF      00     50
            RAM          0100-01FF      00     08
            RAM          0200-02FF      00     E4
            RAM          0300-03FF      00     20
            RAM          0400-04FF      00     20
            RAM          0500-05FF      00     BA
            RAM          0600-06FF      00     01
            RAM          0700-07FF      00     EB
            RAM          0800-08FF      00     00
            RAM          0900-09FF      00     00
            EEPROM       0000-00FF      00     E2       98  Fixed Data
            EEPROM       0100-01FF      00     D8       C0  Fixed Data
            EEPROM       0200-02FF      00     72       72  Fixed Data
            EEPROM       0300-03FF      00     C4       C4  Fixed Data
            EEPROM       0400-04FF      00     00       19  Fixed Data
            EEPROM       0500-05FF      42   [ FF ]!!   70  Fixed Data
            EEPROM       0600-06FF      00
            EEPROM       0700-07FF      00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

NOTE: These data do not original data. Do not refer these data.

After writing data, mark **"!!"** is displayed momentary.

Input data as [ADRS] is 42 and [DATA] is FF and press ENTER key

5. Please change the other part of address data follow the above description.

NOTE: As mentioned as Supplement Service Manual, address is indicated as 4 digits of numerical value. Select the line based on first 2 digit and value behind 2 digit is input value to column [ADRS].

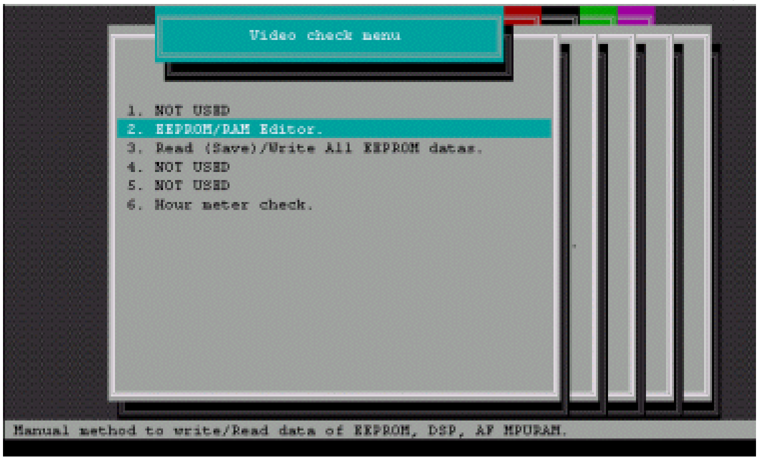
EEPROM	0000-00FF
EEPROM	0100-01FF
EEPROM	0200-02FF
EEPROM	0300-03FF
EEPROM	0400-04FF
EEPROM	0500-05FF
EEPROM	0600-06FF
EEPROM	0700-07FF

In case of 00ED, select the line of **"0000-00FF"**.

In case of 0542, select the line of **"0500-05FF"**

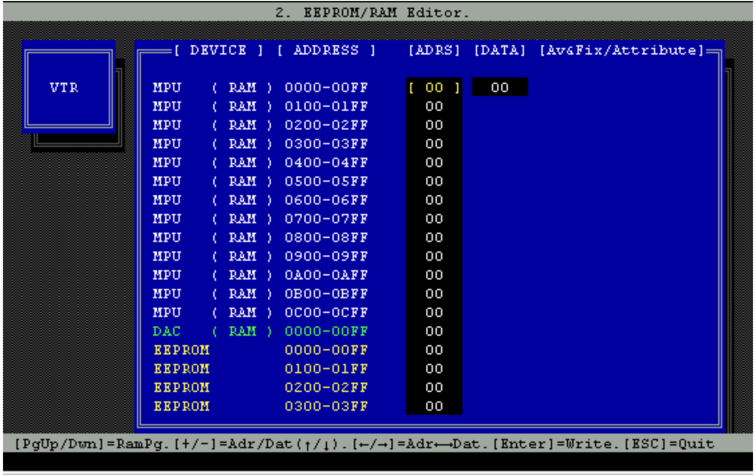
4-4-2. VTR EEPROM upgrade procedure

1. Boot up EVR software and open the Video check menu.
2. Select **“2. EEPROM/RAM Editor”** and press **“ENTER”** key.



Manual method to write/Read data of EEPROM, DSP, AF MPURAM.

3. Below indicated screen is displayed.



```
                         2. EEPROM/RAM Editor.

        [ DEVICE ] [ ADDRESS ]    [ADRS] [DATA] [Av&Fix/Attribute]
 VTR
        MPU    ( RAM ) 0000-00FF  [ 00 ]   00
        MPU    ( RAM ) 0100-01FF    00
        MPU    ( RAM ) 0200-02FF    00
        MPU    ( RAM ) 0300-03FF    00
        MPU    ( RAM ) 0400-04FF    00
        MPU    ( RAM ) 0500-05FF    00
        MPU    ( RAM ) 0600-06FF    00
        MPU    ( RAM ) 0700-07FF    00
        MPU    ( RAM ) 0800-08FF    00
        MPU    ( RAM ) 0900-09FF    00
        MPU    ( RAM ) 0A00-0AFF    00
        MPU    ( RAM ) 0B00-0BFF    00
        MPU    ( RAM ) 0C00-0CFF    00
        DAC    ( RAM ) 0000-00FF    00
        EEPROM         0000-00FF    00
        EEPROM         0100-01FF    00
        EEPROM         0200-02FF    00
        EEPROM         0300-03FF    00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

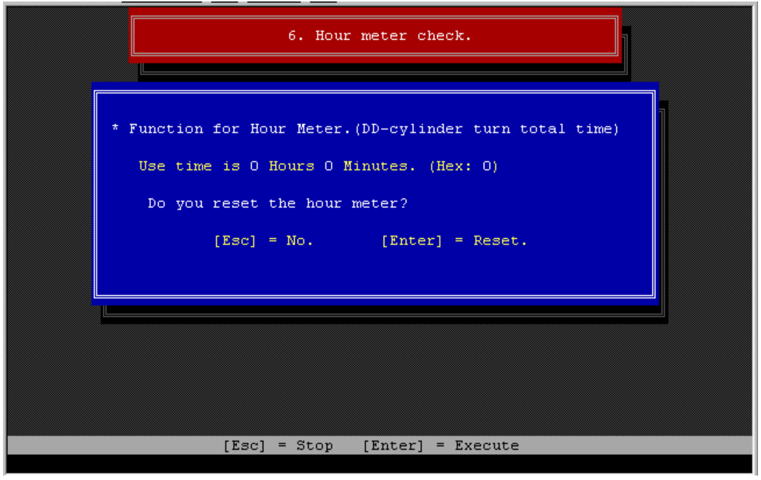
4. Upgrade procedure is the same as CAMERA EEPROM upgrade. How to change the data, please refer to previous item 4-4-1.

5. HOUR METER RESET

Hour Meter can be reset by use this EVR software.

<How to reset Hour Meter>

1. Select **“Video Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“6. Hour meter check”** in the Video check menu, and then press the **“Enter”** key.



6. Hour meter check.

* Function for Hour Meter.(DD-cylinder turn total time)

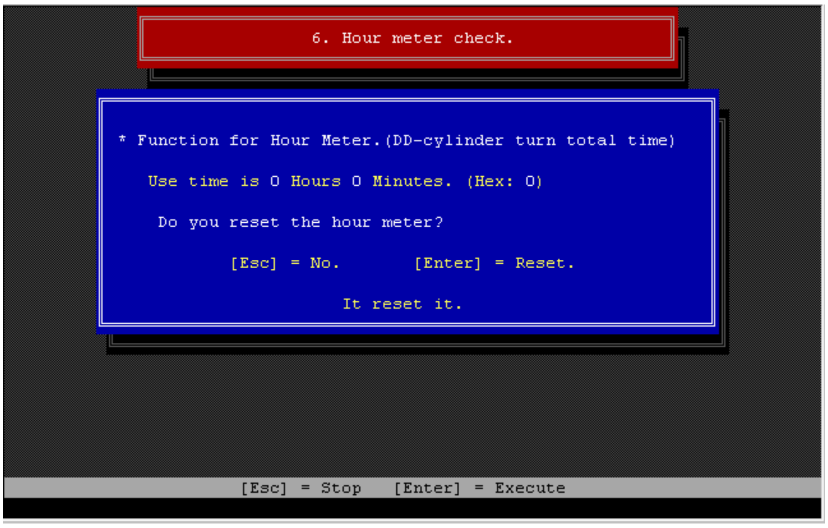
Use time is 0 Hours 0 Minutes. (Hex: 0)

Do you reset the hour meter?

[Esc] = No.   [Enter] = Reset.

[Esc] = Stop   [Enter] = Execute

3. Press the **“ENTER”** key, then reset is executed.



```
6. Hour meter check.

* Function for Hour Meter.(DD-cylinder turn total time)

  Use time is 0 Hours 0 Minutes. (Hex: 0)

   Do you reset the hour meter?

          [Esc] = No.        [Enter] = Reset.

                   It reset it.

[Esc] = Stop    [Enter] = Execute
```

4. After finish this operation, the program goes to **“Video Check Menu”** automatically.
5. Open the **“OTHER FUNCTION”** menu in Unit and confirm that the HOUR METER display is change to **“00000H”**.

6. CAMERA ADJUSTMENT PROCEDURE

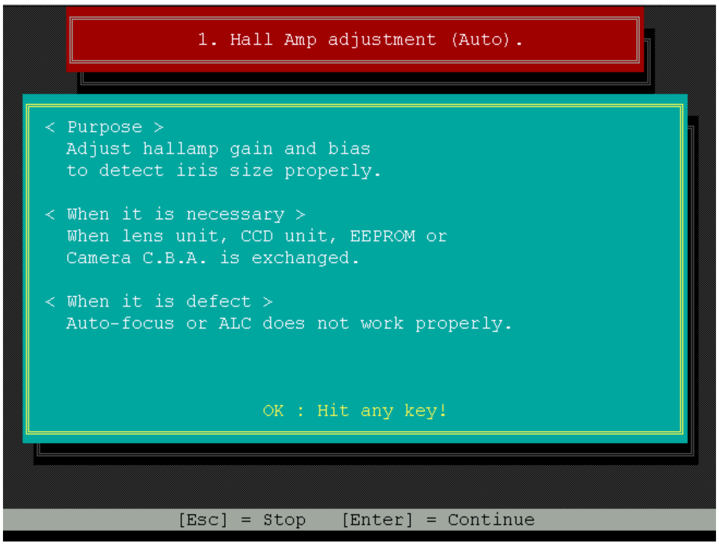
Be sure to save the Camera EEPROM data into the Personal Computer, before performing adjustment.

Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

6-1. Hall Amp Adjustment (AUTO)

This adjustment can be adjust automatically.

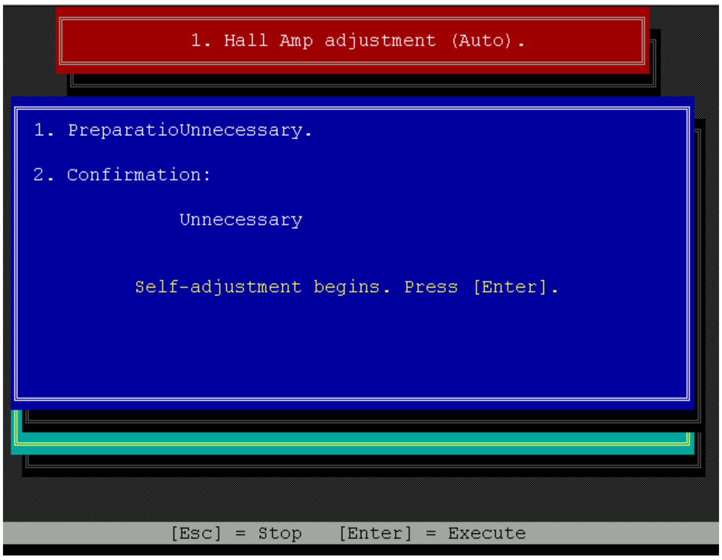
1. Open the **“Camera adjustment menu”**.
2. Select **“1. Hall Amp adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
1. Hall Amp adjustment (Auto).

< Purpose >
  Adjust hallamp gain and bias
  to detect iris size properly.

< When it is necessary >
  When lens unit, CCD unit, EEPROM or
  Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.


                OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

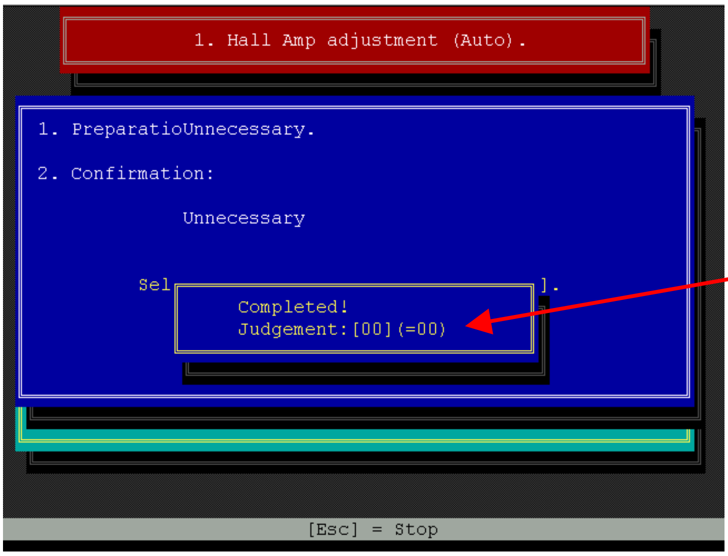
PRESS ENTER KEY.

⇩



```
1. Hall Amp adjustment (Auto).

1. PreparatioUnnecessary.
2. Confirmation:
          Unnecessary

      Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



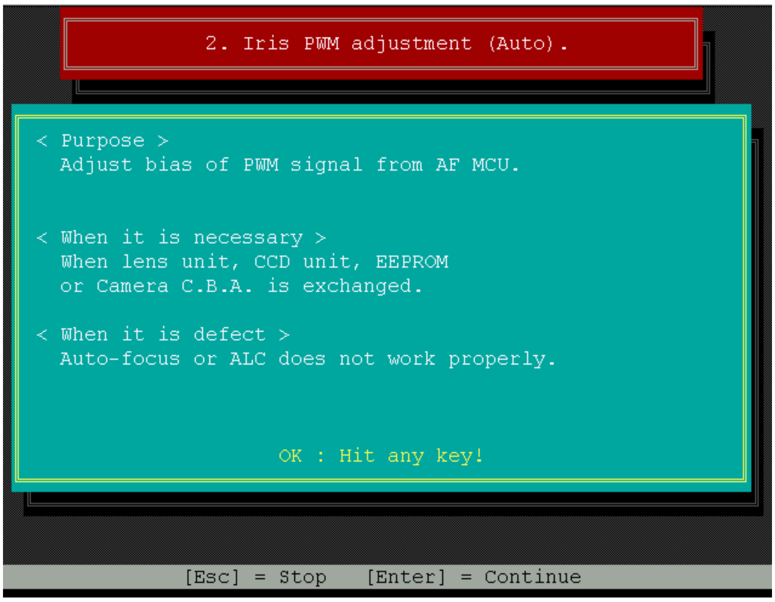
```
1. Hall Amp adjustment (Auto).

1. PreparatioUnnecessary.
2. Confirmation:
          Unnecessary

      Sel                           ].
            Completed!
            Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-2. Iris PWM Adjustment (AUTO)

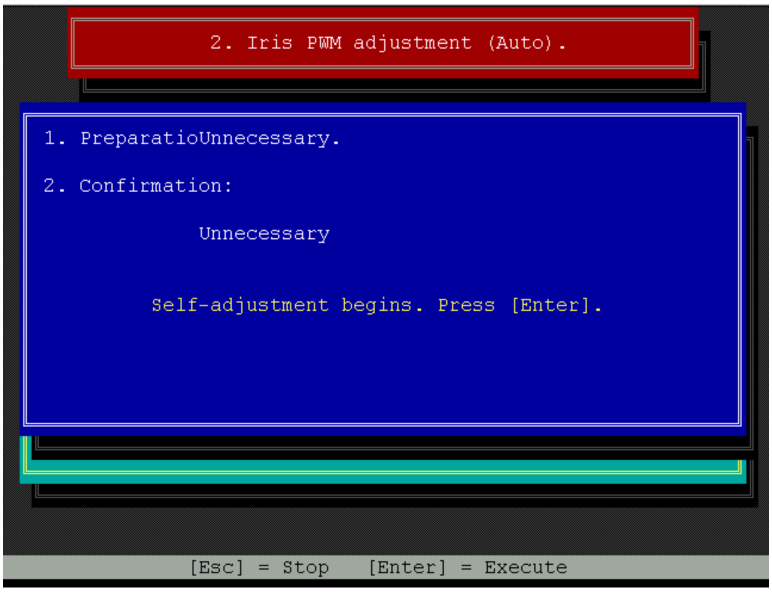
This adjustment can be adjust automatically.

1. Open the **“Camera adjustment menu”**.
2. Select **“2. Iris PWM adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



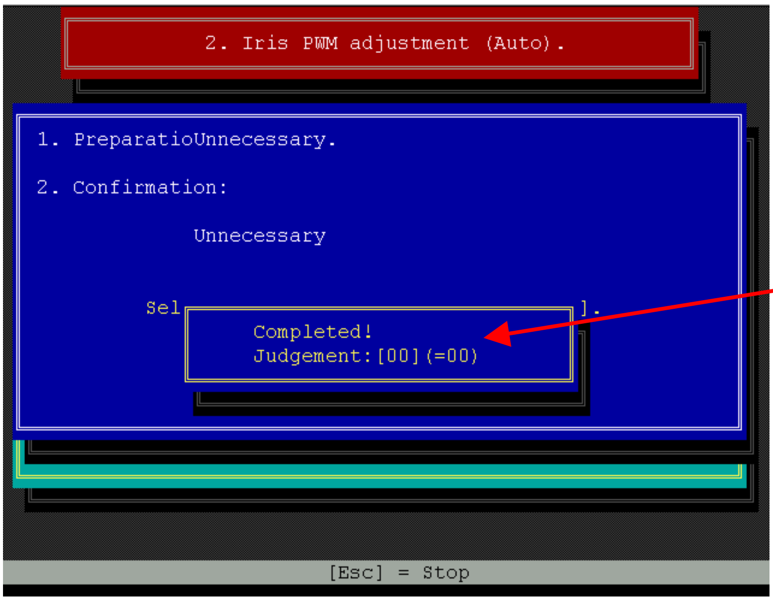
```
2. Iris PWM adjustment (Auto).

< Purpose >
  Adjust bias of PWM signal from AF MCU.


< When it is necessary >
  When lens unit, CCD unit, EEPROM
  or Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.



                    OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
2. Iris PWM adjustment (Auto).

1. PreparatioUnnecessary.

2. Confirmation:

            Unnecessary


        Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



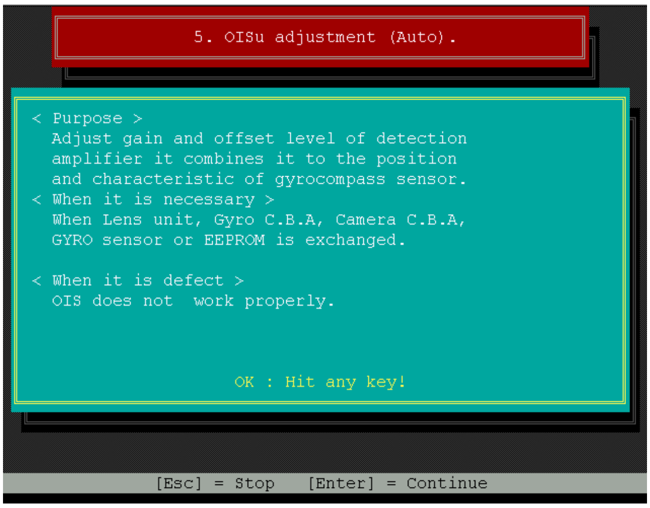
```
2. Iris PWM adjustment (Auto).

1. PreparatioUnnecessary.

2. Confirmation:

            Unnecessary


        Sel                              ].
              Completed!
              Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-3. OISu Adjustment (AUTO)

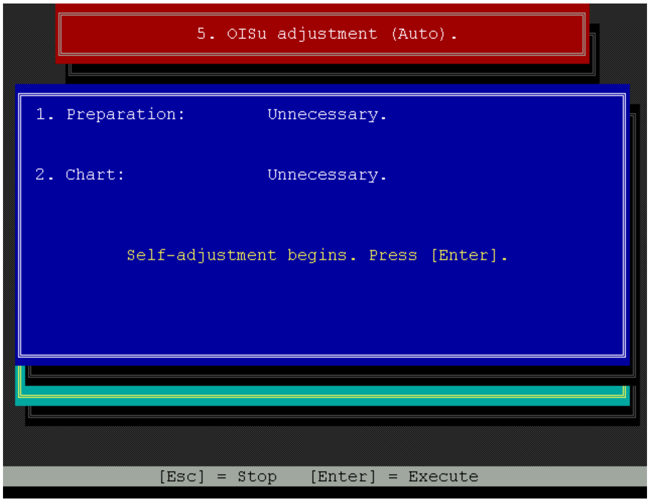
This adjustment can be adjust automatically.

1. Open the **“Camera adjustment menu”**.
2. Select **“5. OISu adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



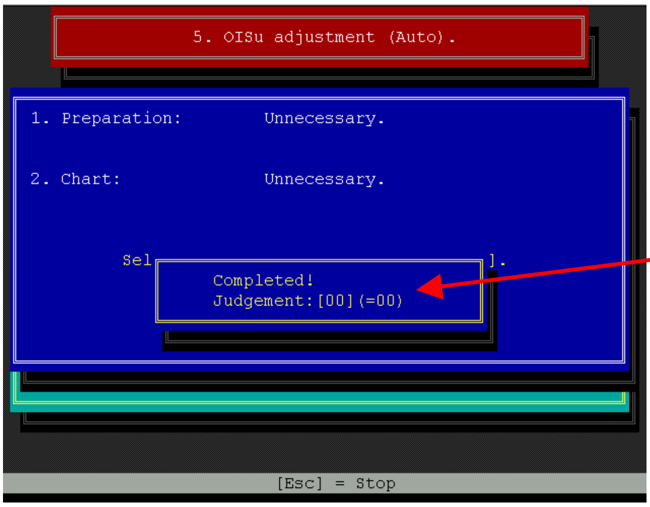
```
5. OISu adjustment (Auto).

< Purpose >
  Adjust gain and offset level of detection
  amplifier it combines it to the position
  and characteristic of gyrocompass sensor.
< When it is necessary >
  When Lens unit, Gyro C.B.A, Camera C.B.A,
  GYRO sensor or EEPROM is exchanged.

< When it is defect >
  OIS does not  work properly.

                    OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
5. OISu adjustment (Auto).

1. Preparation:         Unnecessary.

2. Chart:               Unnecessary.

         Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



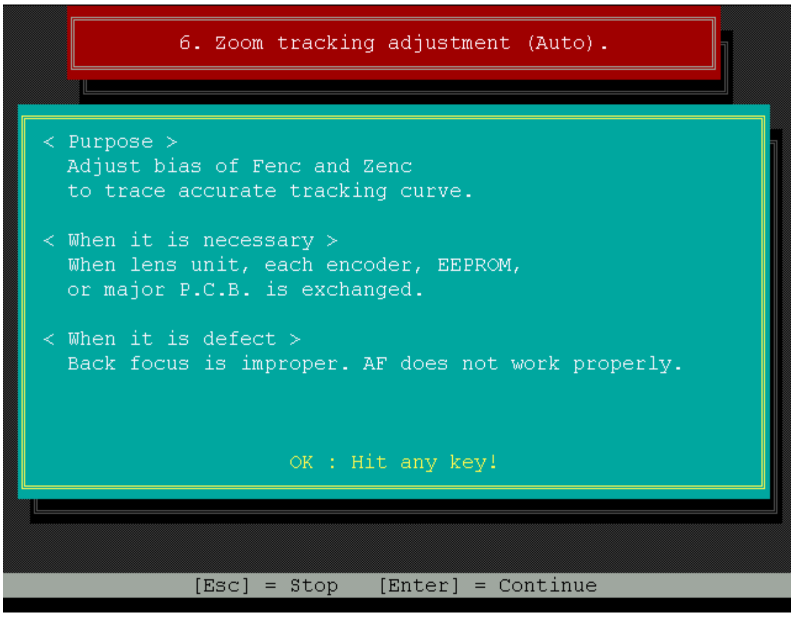
```
5. OISu adjustment (Auto).

1. Preparation:         Unnecessary.

2. Chart:               Unnecessary.

         Sel                               ].
              Completed!
              Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-4. Zoom Tracking Adjustment (AUTO)

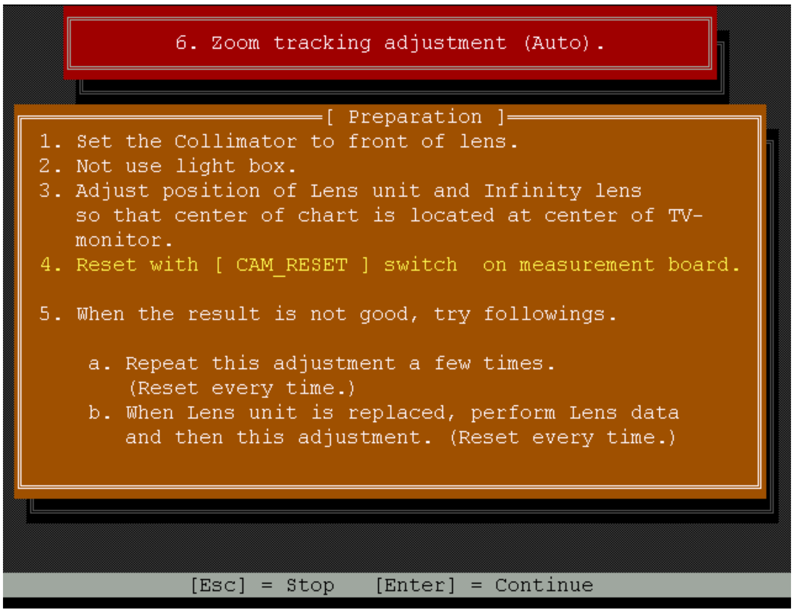
This adjustment can be adjust automatically.

1. Set the 72mm Attachment Ring (VFK1809) to front of the Lens.
2. Set the 43mm attachment ring (VFK1164TAR43) to Collimator (VFK1164TCM01).
3. Set the Collimator (VFK1164TCM01) with the 43mm attachment ring (VFK1164TAR43) to 72mm Attachment Ring (VFK1809).
4. Open the **"Camera adjustment menu"**.
5. Select **"6. Zoom Tracking adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
6. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



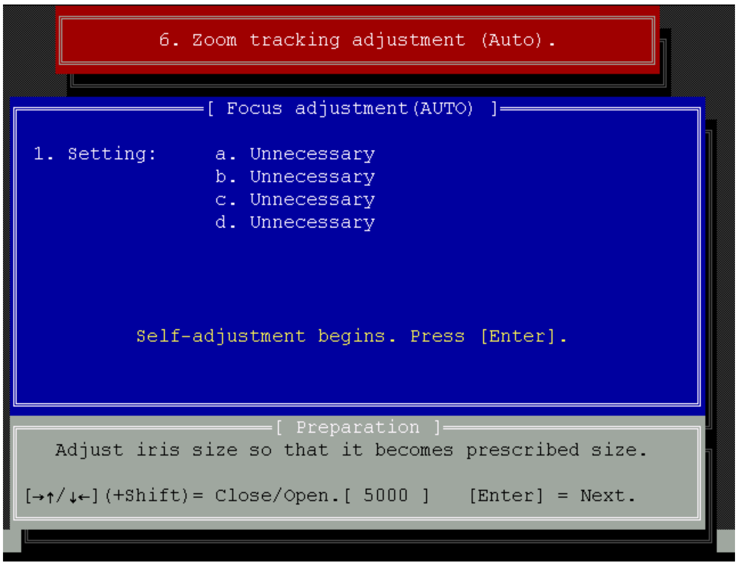
```
6. Zoom tracking adjustment (Auto).

< Purpose >
  Adjust bias of Fenc and Zenc
  to trace accurate tracking curve.

< When it is necessary >
  When lens unit, each encoder, EEPROM,
  or major P.C.B. is exchanged.

< When it is defect >
  Back focus is improper. AF does not work properly.


                 OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



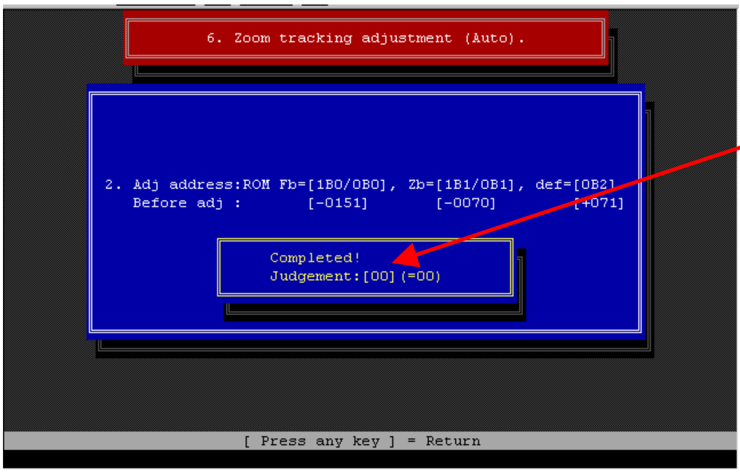
```
6. Zoom tracking adjustment (Auto).

[ Preparation ]
1. Set the Collimator to front of lens.
2. Not use light box.
3. Adjust position of Lens unit and Infinity lens
   so that center of chart is located at center of TV-
   monitor.
4. Reset with [ CAM_RESET ] switch  on measurement board.

5. When the result is not good, try followings.

    a. Repeat this adjustment a few times.
       (Reset every time.)
    b. When Lens unit is replaced, perform Lens data
       and then this adjustment. (Reset every time.)

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
6. Zoom tracking adjustment (Auto).

[ Focus adjustment(AUTO) ]
1. Setting:     a. Unnecessary
                b. Unnecessary
                c. Unnecessary
                d. Unnecessary

        Self-adjustment begins. Press [Enter].

[ Preparation ]
Adjust iris size so that it becomes prescribed size.
[→↑/↓←](+Shift)= Close/Open.[ 5000 ]   [Enter] = Next.
```

PRESS ENTER KEY, then adjustment is started.



```
6. Zoom tracking adjustment (Auto).

2. Adj address:ROM Fb=[1B0/0B0], Zb=[1B1/0B1], def=[0B2]
   Before adj :       [-0151]        [-0070]        [+071]

        Completed!
        Judgement:[00](=00)

[ Press any key ] = Return
```

When adjustment is finished, message **"Completed!"** appeared and numerical value is changed **"00"**.

7. After finish this adjustment, press **"CAM RESET"** switch on Measuring Board (VFK1308P).
NOTE: Please perform this adjustment twice.
8. Confirm that the camera recorder set to Auto Focus mode.
9. Connect the VIDEO OUT to Monitor TV.
10. Press the Zoom button to set maximum TELE side.
11. Confirm that the focus chart appeared clear and Numerical value of Focus control information display. (The value should be appeared **"AF95 ± 1"**
12. Set the camera recorder to manual focus mode.
13. Press the Zoom button to change zoom position to maximum WIDE from maximum TELE side, then confirm that the focus chart appeared clear and Zoom position display number changed smoothly.

6-5. White Balance Adjustment (AUTO)

This adjustment can be adjust automatically.

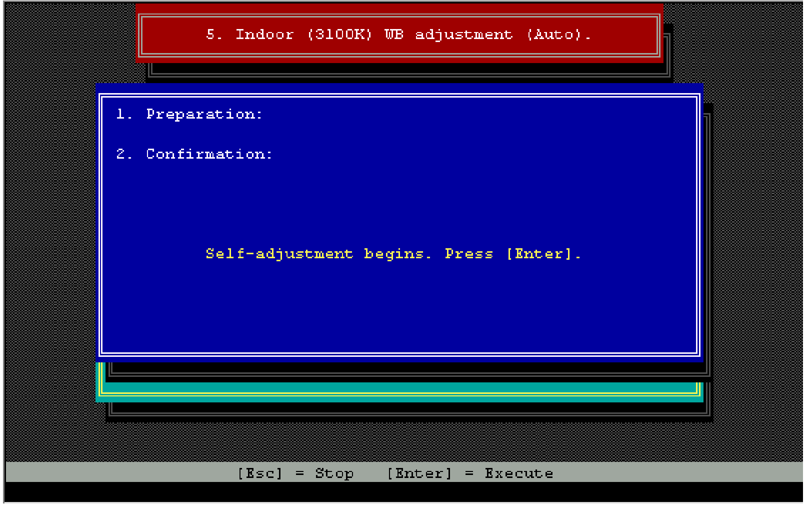
Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.

<Preparation>

1. Set the ND FILTER SW to 1/8 position.
2. Set the camera recorder to ATW mode.
3. Execute the ABB.

6-5-1. Indoor (3100K) White Balance Adjustment (AUTO)

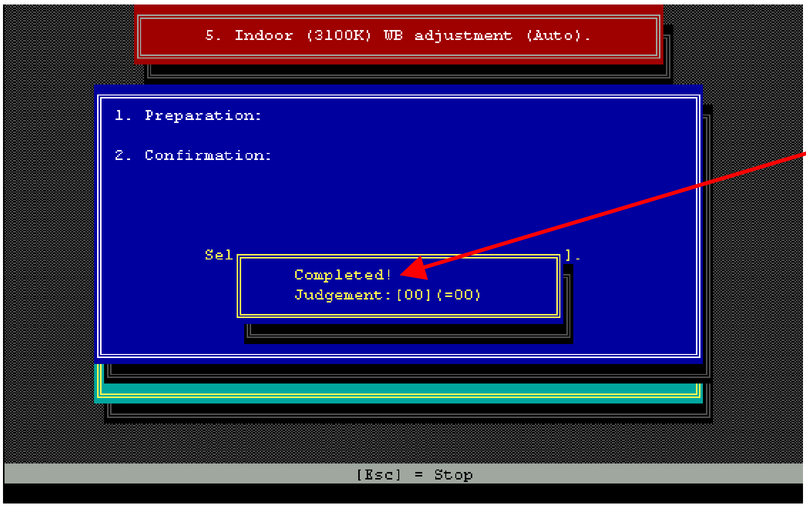
1. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
2. Open the **“Camera adjustment menu”**.
3. Select **“7. White Balance adjustment”** in the Camera adjustment menu, and then press the **“Enter”** key.
4. Select **“5. Indoor (3100K) WB adjustment (Auto)”** in the White balance adjustment menu, and then press the **“Enter”** key.



```
5. Indoor (3100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.

⇩



```
5. Indoor (3100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel                                   ].
    Completed!
    Judgement:[00](=00)

[Esc] = Stop
```

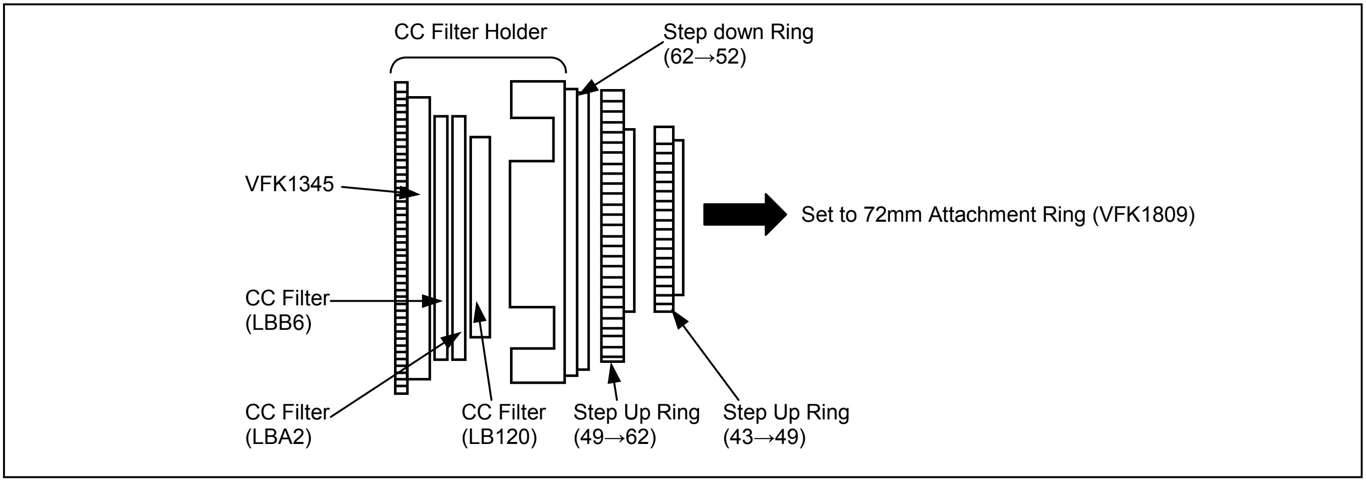
When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.

6-5-2. Outdoor (5100K) White Balance Adjustment (Auto)

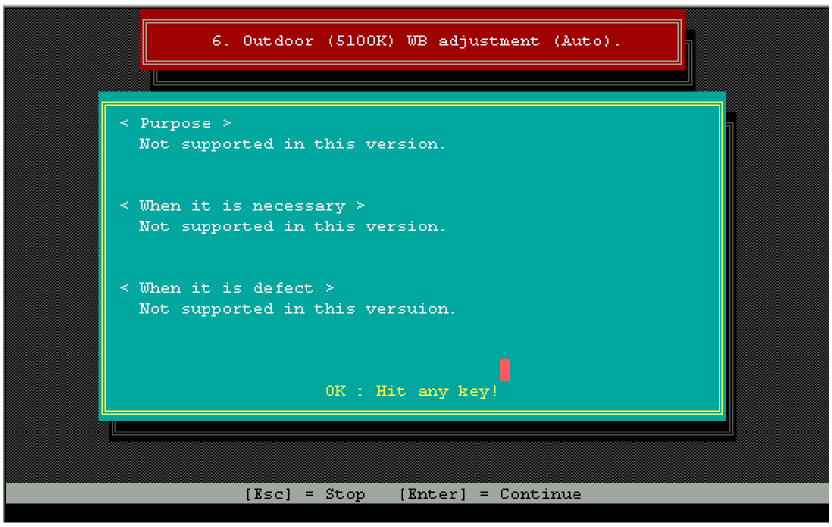
1. Set the Color Conversion filters (LB120 : VFK1347), (LBA2 : VFK1884) and (LBB6 : VFK1888) to CC Filter Holder (VFK1345).

NOTE: The LBB6(VFK1888) is the compatible article of 80D. The cc filter 80D is made by Kodak, which was introduced with the AG-DVX100/DVC80/DVC180 service manual. Being supplying LBB6(VFK1888) as service tool, which is made from Fuji film, either can be used LBB6 and 80D for White Balance (5100K) adjustment.

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the 72mm Attachment Ring (VFK1809) to front of the Lens.
4. Set the CC Filter Holder with Step-up & down Rings to 72mm Attachment Ring (VFK1809).

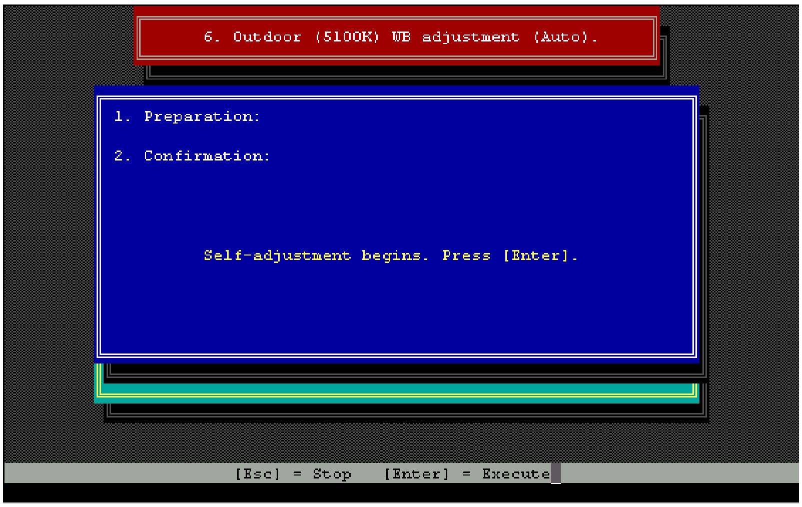

CC Filter Holder
Step down Ring
(62→52)
VFK1345
Set to 72mm Attachment Ring (VFK1809)
CC Filter
(LBB6)
CC Filter
(LBA2)
CC Filter
(LB120)
Step Up Ring
(49→62)
Step Up Ring
(43→49)

5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Open the **“Camera adjustment menu”**.
7. Select **“7. White Balance adjustment”** in the Camera adjustment menu, and then press the **“Enter”** key.
8. Select **“6. Outdoor (5100K) WB adjustment (Auto)”** in the White balance adjustment menu, and then press the **“Enter”** key.



```
6. Outdoor (5100K) WB adjustment (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >
  Not supported in this version.

< When it is defect >
  Not supported in this versuion.

                    OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



6. Outdoor (5100K) WB adjustment (Auto).

1. Preparation:

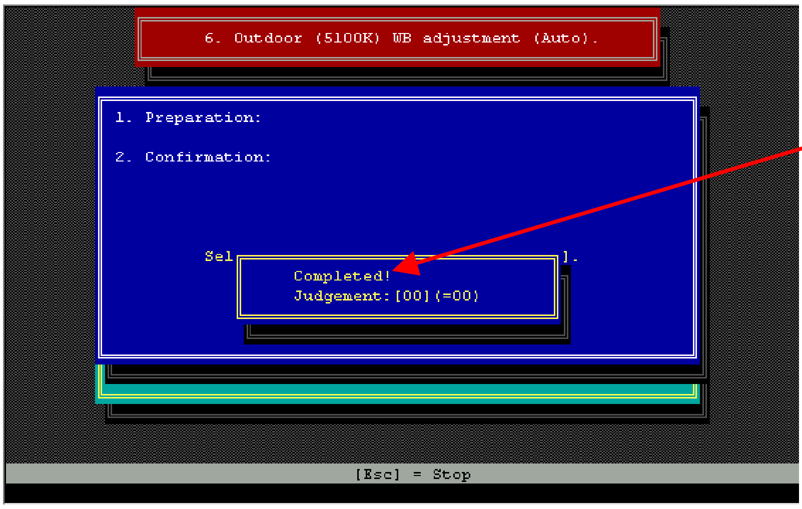
2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop [Enter] = Execute

PRESS ENTER KEY, then adjustment is started.

⇩



6. Outdoor (5100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel].

Completed!
Judgement:[00](=00)

[Esc] = Stop

When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.

⇩

6-5-3. Cool white (4500K) White Balance Adjustment (Auto)

< In case of NTSC model >

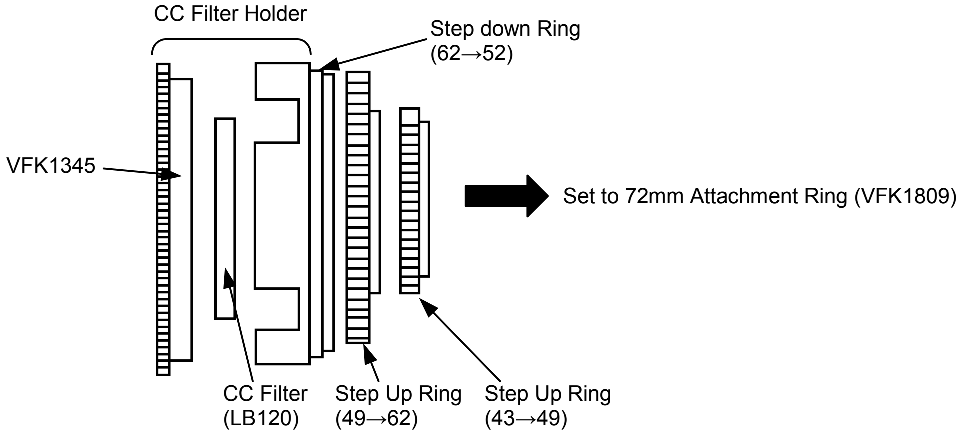
1. Set the Color Conversion filters (LB120 : VFK1347) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (LB80 : VFK1342) and (CC C20 : VFK1887) to CC Filter Holder (VFK1345).

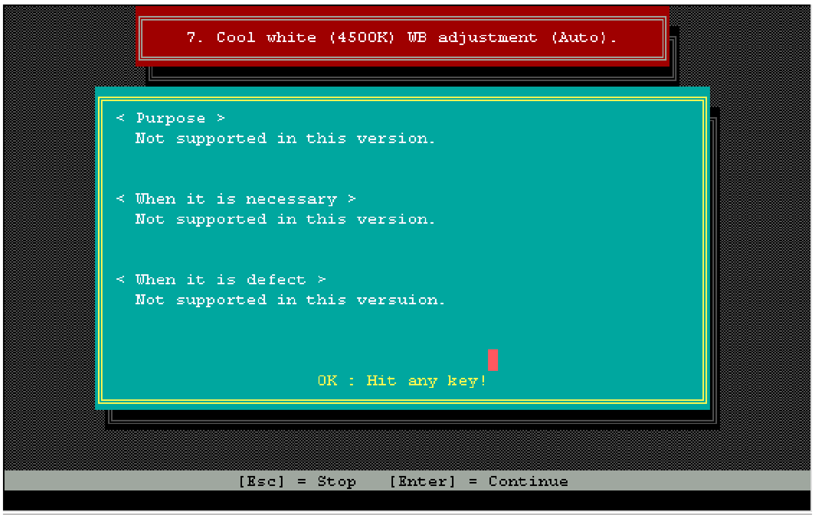
< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the 72mm Attachment Ring (VFK1809) to front of the Lens.
4. Set the CC Filter Holder with Step-up & down Rings to 72mm Attachment Ring (VFK1809).


CC Filter Holder
Step down Ring
(62→52)
VFK1345
Set to 72mm Attachment Ring (VFK1809)
CC Filter
(LB120)
Step Up Ring
(49→62)
Step Up Ring
(43→49)

NOTE: Above figure described in case of NTSC.

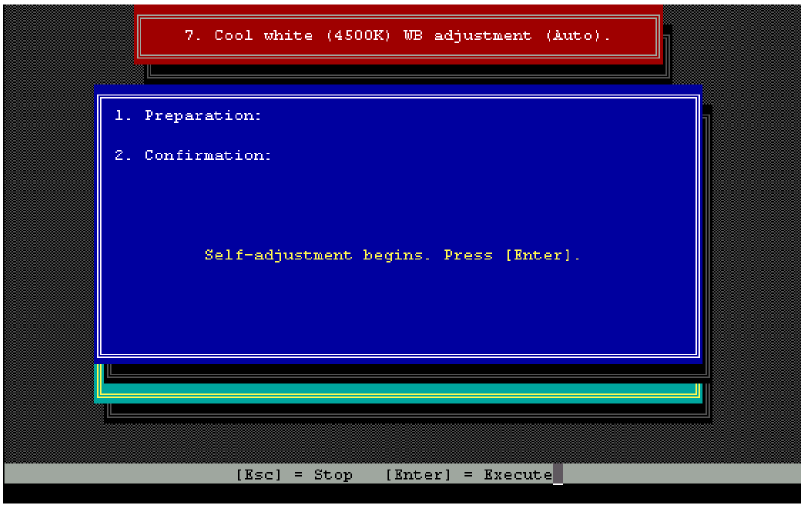
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Open the **"Camera adjustment menu"**.
7. Select **"7. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
8. Select **"7. Cool white (4500K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



```
7. Cool white (4500K) WB adjustment (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >
  Not supported in this version.

< When it is defect >
  Not supported in this versuion.

              OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.

⇩

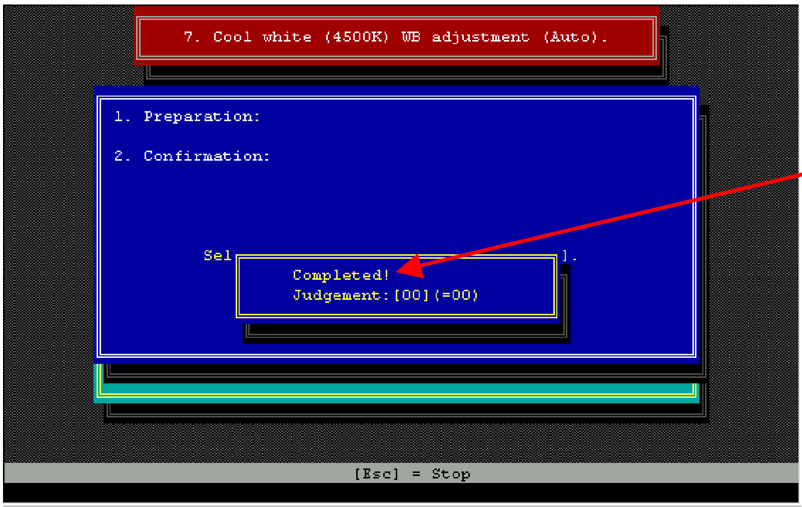

7. Cool white (4500K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

PRESS ENTER KEY, then adjustment is started.


7. Cool white (4500K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Completed!
Judgement:[00](=00)

When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.

6-5-4. Warm white (3600K) White Balance Adjustment (Auto)

< In case of NTSC model >

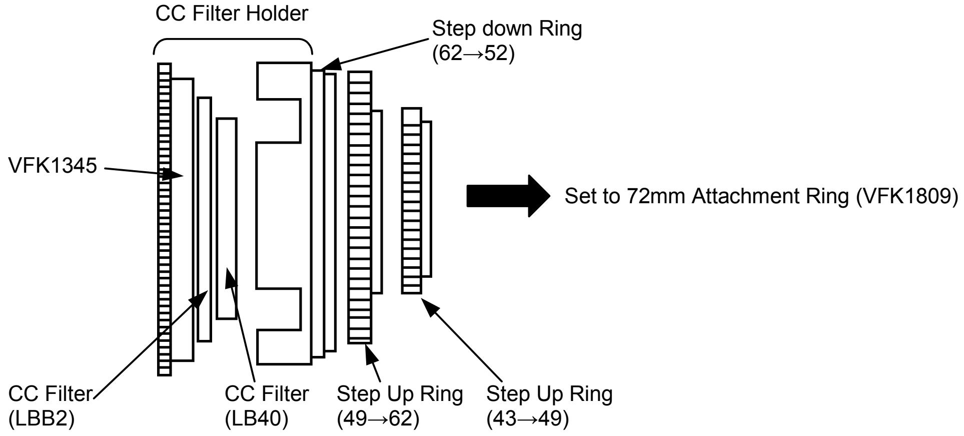
1. Set the Color Conversion filters (LB40 : VFK1341) and (LBB2 : VFK1885) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (CC C10 : VFK1886) to CC Filter Holder (VFK1345).

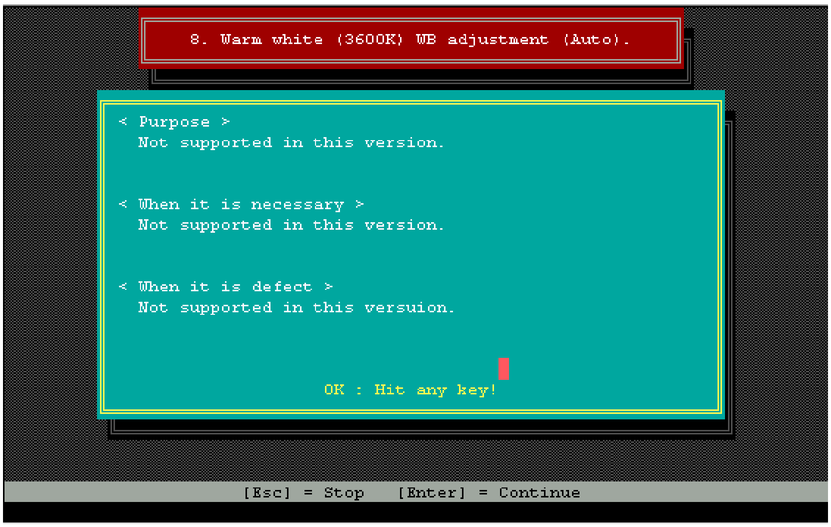
< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the 72mm Attachment Ring (VFK1809) to front of the Lens.
4. Set the CC Filter Holder with Step-up & down Rings to 72mm Attachment Ring (VFK1809).


CC Filter Holder
Step down Ring (62→52)
VFK1345
Set to 72mm Attachment Ring (VFK1809)
CC Filter (LBB2)
CC Filter (LB40)
Step Up Ring (49→62)
Step Up Ring (43→49)

NOTE: Above figure described in case of NTSC.

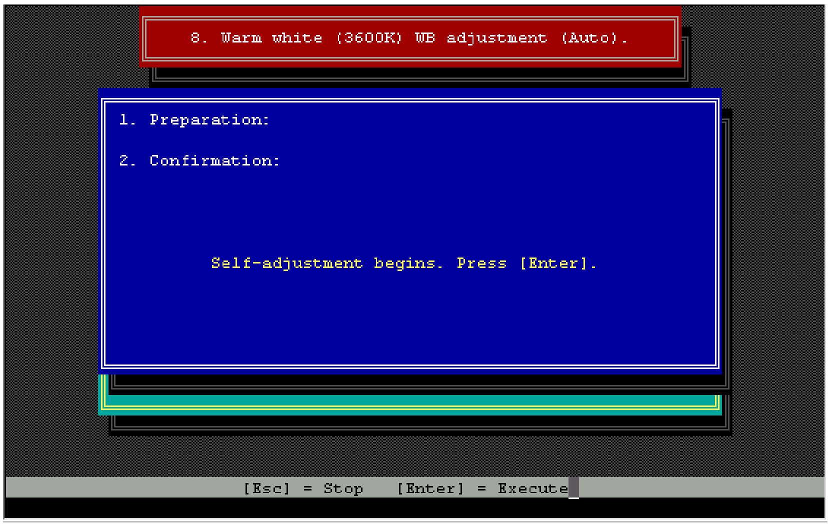
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Open the **"Camera adjustment menu"**.
7. Select **"7. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
8. Select **"8. Wram white (3600K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



```
8. Warm white (3600K) WB adjustment (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >
  Not supported in this version.

< When it is defect >
  Not supported in this versuion.

                 OK : Hit any key!

         [Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.

⇩



8. Warm white (3600K) WB adjustment (Auto).

1. Preparation:

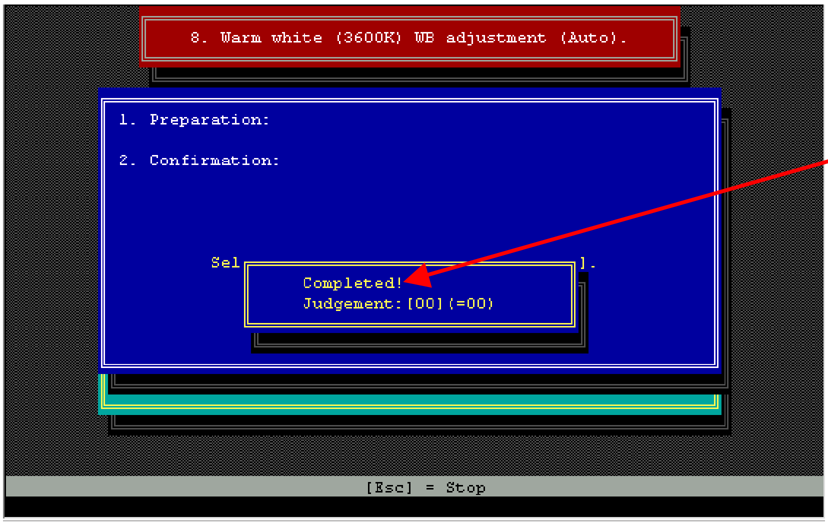
2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop [Enter] = Execute

PRESS ENTER KEY, then adjustment is started.

⇩



8. Warm white (3600K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel].

Completed!
Judgement:[00](=00)

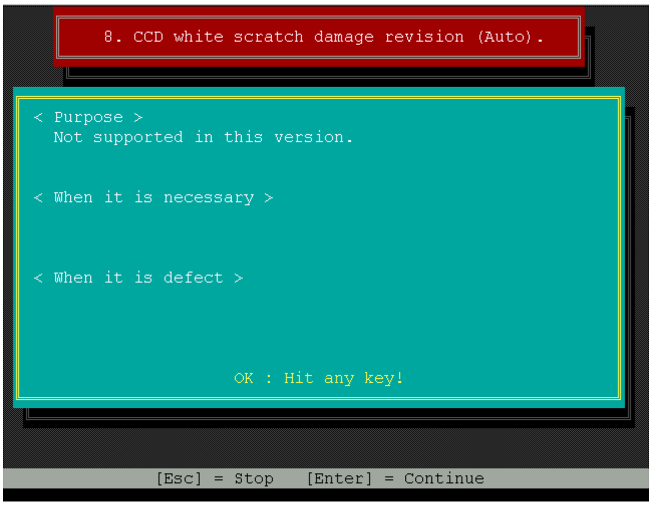
[Esc] = Stop

When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.

6-6. CCD white scratch damage revision Adjustment (AUTO)

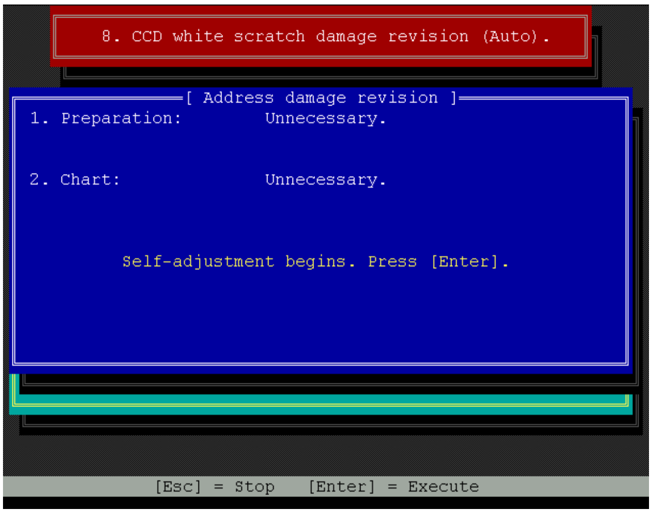
This adjustment can be adjust automatically.

1. Open the **“Camera adjustment menu”**.
2. Select **“8.CCD white scratch damage revision adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



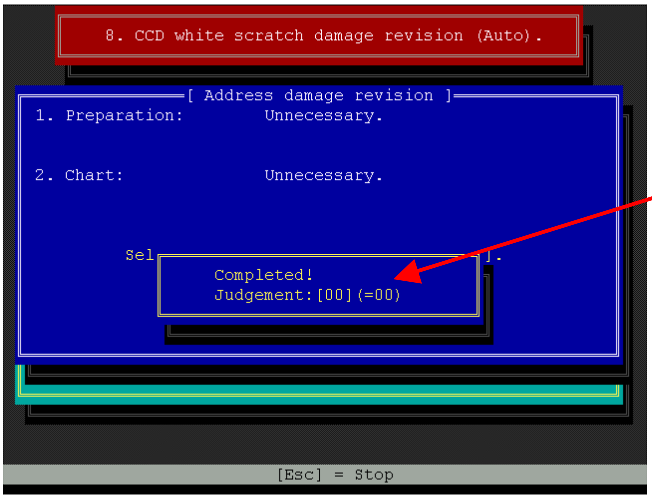
```
8. CCD white scratch damage revision (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >

< When it is defect >

OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
8. CCD white scratch damage revision (Auto).
[ Address damage revision ]
1. Preparation:          Unnecessary.

2. Chart:                Unnecessary.

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



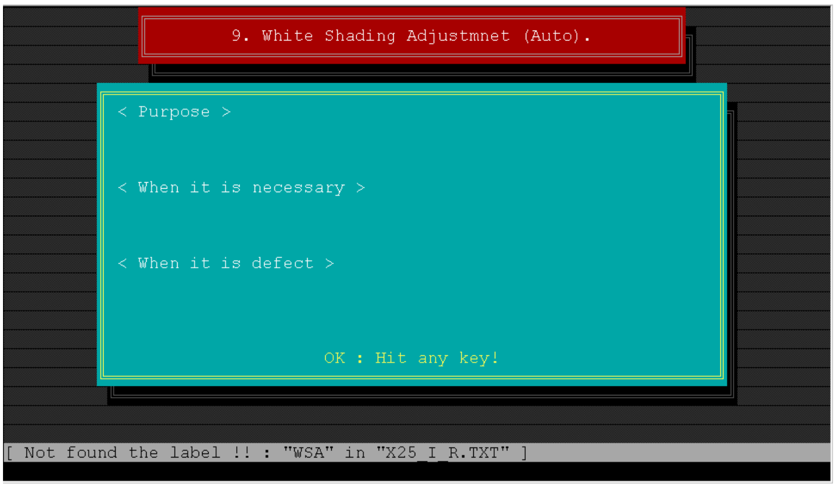
```
8. CCD white scratch damage revision (Auto).
[ Address damage revision ]
1. Preparation:          Unnecessary.

2. Chart:                Unnecessary.

Sel                                  ].
     Completed!
     Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-7. White Shading Adjustment

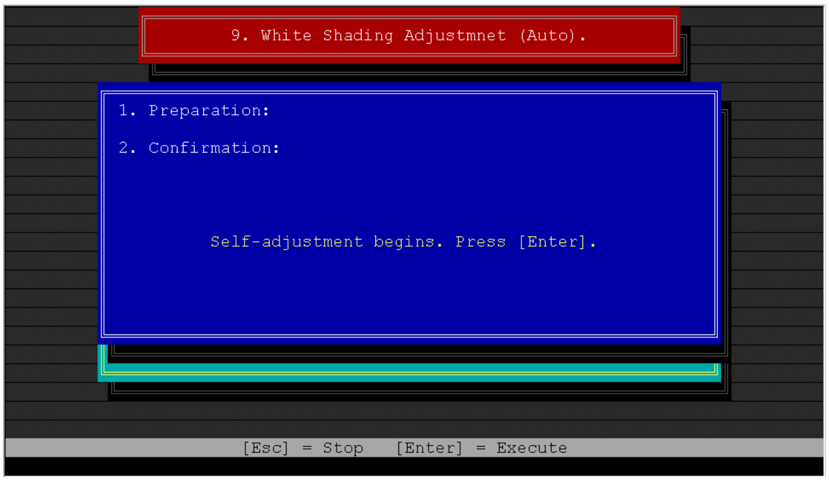
This adjustment can be adjust automatically.

1. Set the GAIN SW to L (0dB) of camera recorder.
2. Open the SW mode menu in CAMERA menu.
3. Select the item **“ATW”** and set to OFF.
4. Aim the camera recorder at white paper (it can be use clear white paper) under the Halogen lamp condition.
5. Shoot the white paper to become fully screen.
6. Set the White Balance by press AWB SW and confirm that the message **“AWB OK”** on center of screen.
7. Open the DISPLAY SETUP menu in CAMERA menu.
8. Select the item **“MARKER”** and set to ON.
9. Press the ZEBRA SW and confirm that the marker is appears on screen.
10. Adjust the Iris dial to the luminance level to become 70 to 80% (luminance level can be confirm by numerical value, which displayed lower left corner of screen.
11. Open the **“Camera adjustment menu”**.
12. Select **“9. White Shading Adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
13. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



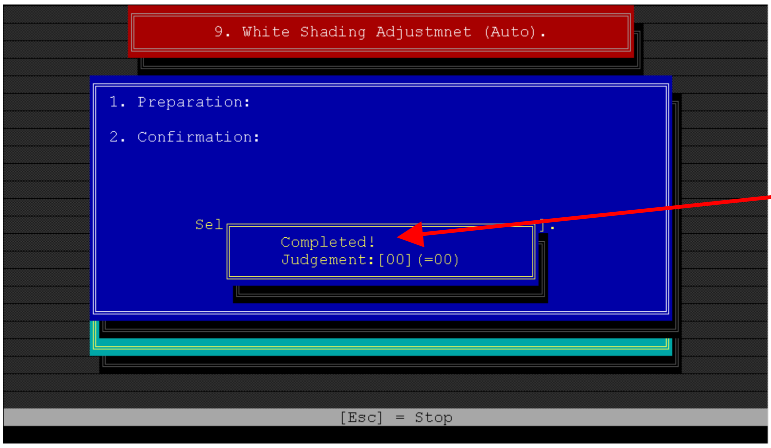
```
9. White Shading Adjustmnet (Auto).

< Purpose >

< When it is necessary >

< When it is defect >

OK : Hit any key!

[ Not found the label !! : "WSA" in "X25_I_R.TXT" ]
```

PRESS ENTER KEY.



```
9. White Shading Adjustmnet (Auto).

1. Preparation:
2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



```
9. White Shading Adjustmnet (Auto).

1. Preparation:

2. Confirmation:

Sel                                  ].
        Completed!
        Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appeared and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

7. VTR ADJUSTMENT PROCEDURE

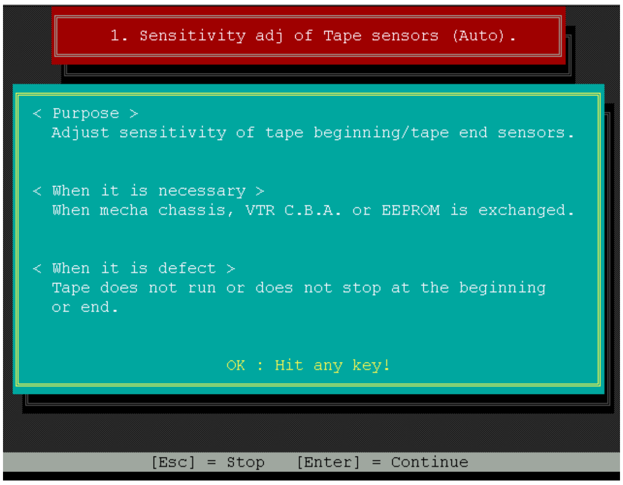
Be sure to save the VTR EEPROM data into the Personal Computer, before performing adjustment.

Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

7-1. Sensitivity adj of Tape sensors Adjustment (AUTO)

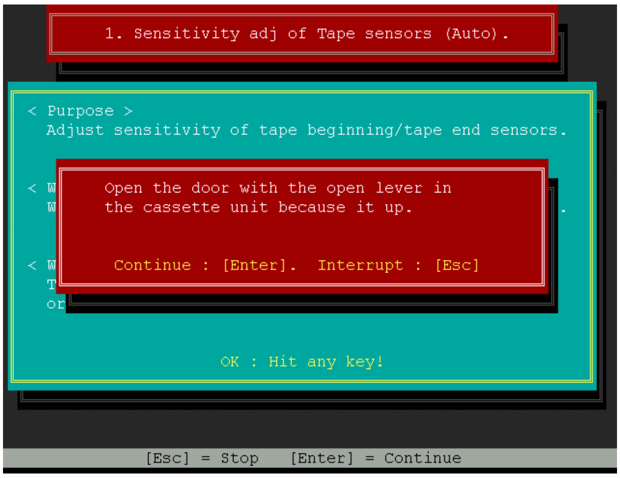
This adjustment can be adjust automatically.

1. Insert the Tape End/Beg. Sensor Cassette (VFK1217) into the camera recorder.
2. Open the **"Video adjustment menu"**.
3. Select **"1. Sensitivity adj of Tape sensors (Auto)"** in the Video adjustment menu, and then press the **"Enter"** key.



```
1. Sensitivity adj of Tape sensors (Auto).

< Purpose >
  Adjust sensitivity of tape beginning/tape end sensors.


< When it is necessary >
  When mecha chassis, VTR C.B.A. or EEPROM is exchanged.


< When it is defect >
  Tape does not run or does not stop at the beginning
  or end.


              OK : Hit any key!

        [Esc] = Stop    [Enter] = Continue
```

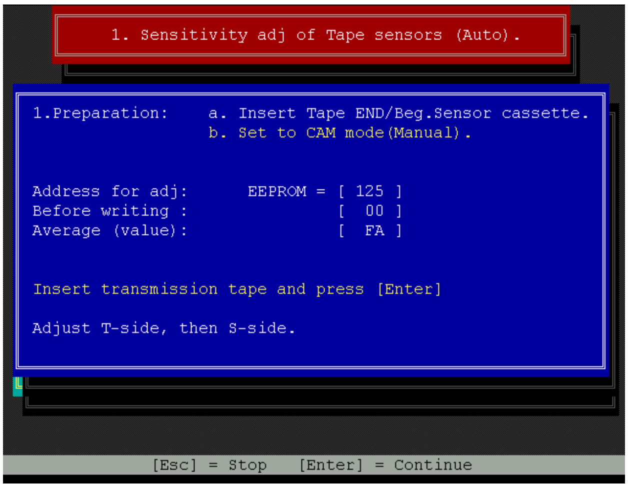
PRESS ENTER KEY.



```
1. Sensitivity adj of Tape sensors (Auto).

< Purpose >
  Adjust sensitivity of tape beginning/tape end sensors.

< W     Open the door with the open lever in
  W     the cassette unit because it up.           .

< W      Continue : [Enter].  Interrupt : [Esc]
  T
  or

              OK : Hit any key!

        [Esc] = Stop    [Enter] = Continue
```

Unnecessary open the door, PRESS ENTER KEY.

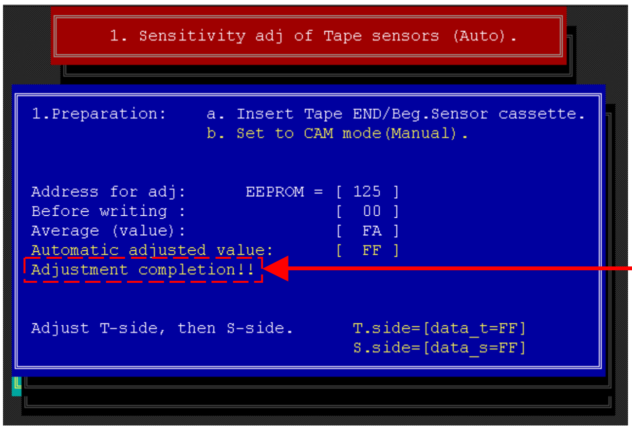
4. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



```
1. Sensitivity adj of Tape sensors (Auto).

1.Preparation:     a. Insert Tape END/Beg.Sensor cassette.
                   b. Set to CAM mode(Manual).


Address for adj:      EEPROM = [ 125 ]
Before writing :               [  00 ]
Average (value):               [  FA ]


Insert transmission tape and press [Enter]

Adjust T-side, then S-side.

        [Esc] = Stop    [Enter] = Continue
```

In case of the **"Tape END / Beg. Sensor cassette (VFK1217)"** is already inserted, PRESS ENTER KEY.

⇩



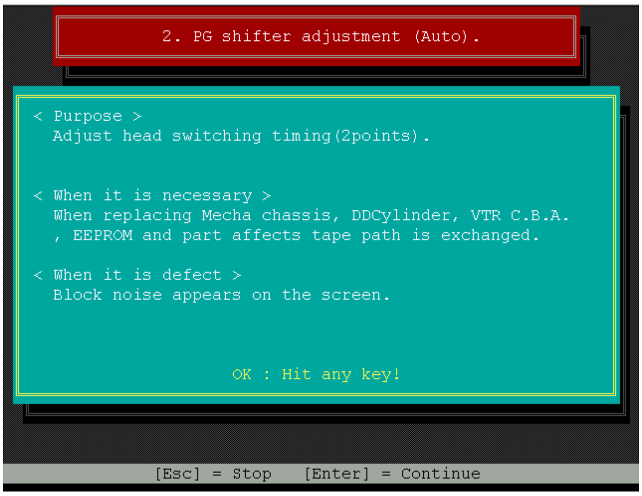
```
1. Sensitivity adj of Tape sensors (Auto).

1.Preparation:     a. Insert Tape END/Beg.Sensor cassette.
                   b. Set to CAM mode(Manual).

Address for adj:      EEPROM = [ 125 ]
Before writing :               [  00 ]
Average (value):               [  FA ]
Automatic adjusted value:      [  FF ]
Adjustment completion!!

Adjust T-side, then S-side.      T.side=[data_t=FF]
                                 S.side=[data_s=FF]
```

Please confirm this message appeared on screen, then adjustment is finished.

7-2. PG shifter Adjustment (AUTO)

This adjustment can be adjust automatically.

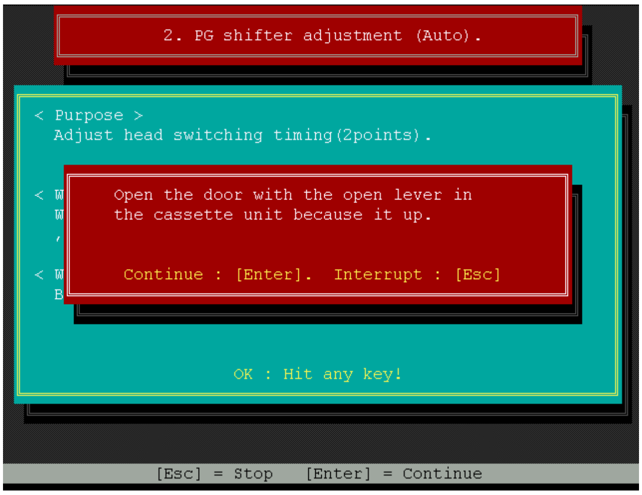
1. Connect the oscilloscope to **“HID”** and **“SPA”** on the VFK1308P.
2. Insert the DV color bar alignment tape (VFM3010EDS: NTSC or VFM3110EDS: PAL) into the camera recorder.
3. Open the **“Video adjustment menu”**.
4. Select **“2. PG shifter adjustment (Auto)”** in the Video adjustment menu, and then press the **“Enter”** key.
5. Set to VCR mode in camera recorder follow the message **“Manually set to VCR mode.”**, and then press the **“Enter”** key.



```
2. PG shifter adjustment (Auto).

< Purpose >
  Adjust head switching timing(2points).

< When it is necessary >
  When replacing Mecha chassis, DDCylinder, VTR C.B.A.
  , EEPROM and part affects tape path is exchanged.

< When it is defect >
  Block noise appears on the screen.

                  OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

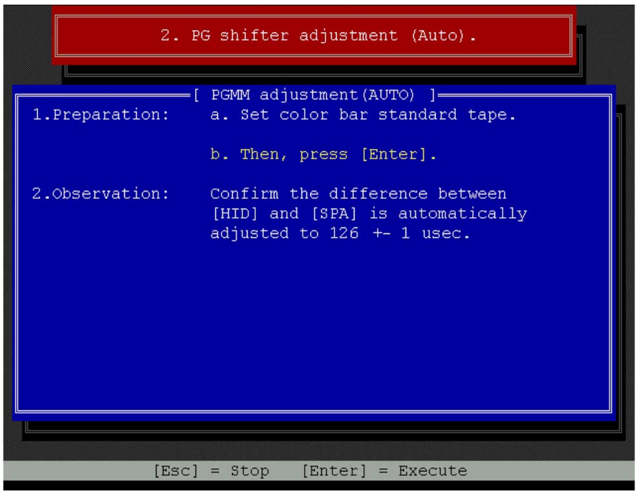
PRESS ENTER KEY.

⇩



```
2. PG shifter adjustment (Auto).

< Purpose >
  Adjust head switching timing(2points).

< W     Open the door with the open lever in
  W     the cassette unit because it up.
  ,
< W      Continue : [Enter].  Interrupt : [Esc]
  B

                  OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

Unnecessary open the door, PRESS ENTER KEY.



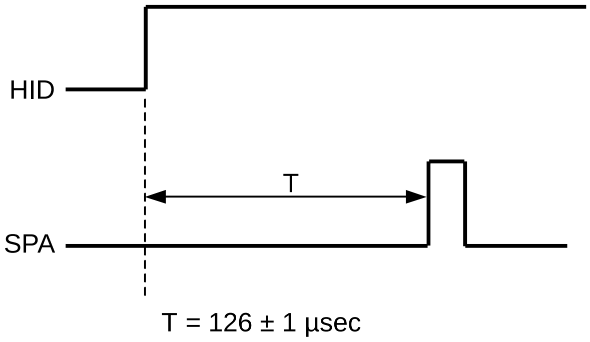
```
2. PG shifter adjustment (Auto).

[ PGMM adjustment(AUTO) ]
1.Preparation:    a. Set color bar standard tape.

                  b. Then, press [Enter].

2.Observation:    Confirm the difference between
                  [HID] and [SPA] is automatically
                  adjusted to 126 +- 1 usec.

[Esc] = Stop    [Enter] = Execute
```

In case of the DV color bar alignment tape is already inserted, PRESS ENTER KEY, then adjustment is started.

NOTE:

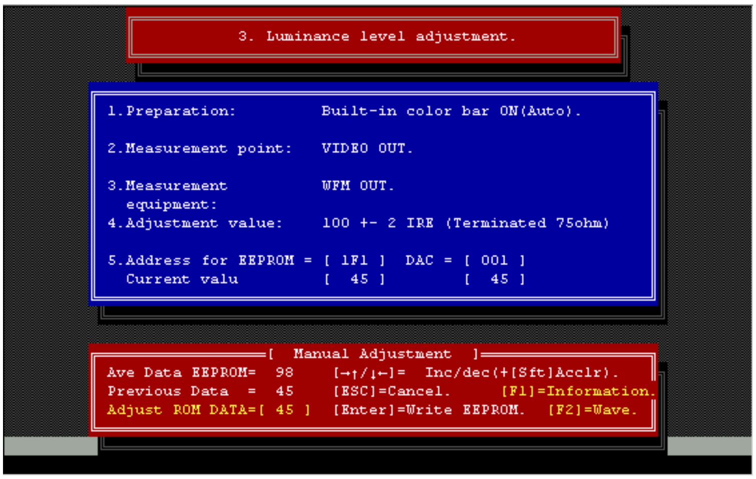
When the screen change in the following screen, camera recorder goes to STBY ON from STBY OFF mode. Press ENTER key after the camera recorder change to STBY ON mode completely.

After finish adjustment, please confirm portion **"T"** is within the specification as shown in figure.



7-3. Luminance level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm terminate.
2. Open the **“Video adjustment menu”**.
3. Select **“3. Luminance level adjustment”** in the Video adjustment menu, and then press the **“Enter”** key.
4. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
3. Luminance level adjustment.

1.Preparation:          Built-in color bar ON(Auto).

2.Measurement point:    VIDEO OUT.

3.Measurement           WFM OUT.
  equipment:
4.Adjustment value:     100 +- 2 IRE (Terminated 75ohm)

5.Address for EEPROM = [ 1F1 ]  DAC = [ 001 ]
  Current valu         [  45 ]        [  45 ]

═══════════════[  Manual Adjustment  ]═══════════════
Ave Data EEPROM=  98    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  45    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 45 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

NOTE:
This figure is described in case of NTSC model.

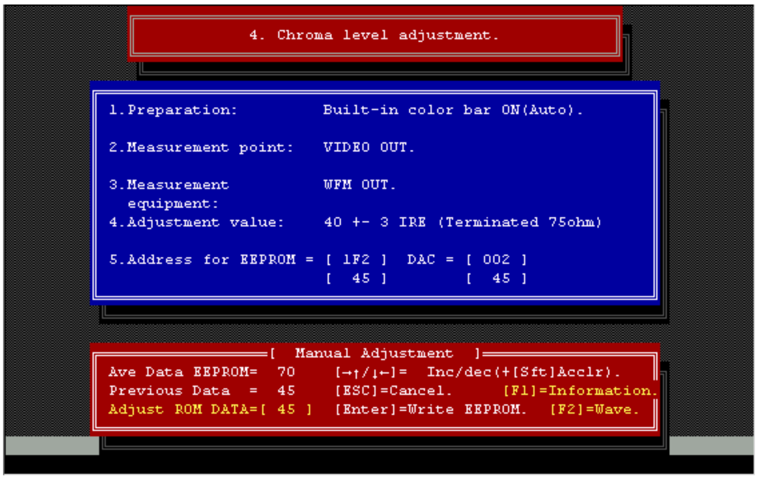
5. Adjust the Y level to become (100±2 IRE: NTSC model / 700±10 mVp-p: PAL model) by press arrow keys.

Note: 1) Y level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.

6. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

7-4. Chroma level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm terminate.
2. Open the **“Video adjustment menu”**.
3. Select **“4. Chroma level adjustment”** in the Video adjustment menu, and then press the **“Enter”** key.
4. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
4. Chroma level adjustment.

1.Preparation:          Built-in color bar ON(Auto).

2.Measurement point:    VIDEO OUT.

3.Measurement           WFM OUT.
  equipment:
4.Adjustment value:     40 +- 3 IRE (Terminated 75ohm)

5.Address for EEPROM = [ 1F2 ]  DAC = [ 002 ]
                       [  45 ]        [  45 ]

═══════════════[  Manual Adjustment  ]═══════════════
Ave Data EEPROM=  70    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  45    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 45 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

NOTE:
This figure is described in case of NTSC model.

5. Adjust the C level to become (40±3: NTSC model / 300±20 mVp-p: PAL model) by press arrow keys.

Note: 1) C level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.

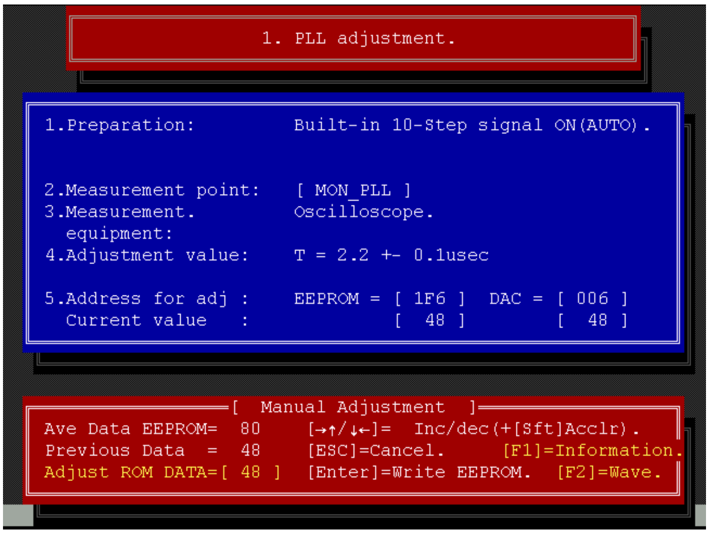
6. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

8. LCD ADJUSTMENT PROCEDURE

Be sure to save the VTR EEPROM data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.
Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

8-1. PLL Adjustment

1. Connect the oscilloscope to **"MON_PLL"** on the VFK1308P.
2. Open the **"LCD adjustment menu"**.
3. Select **"1. PLL adjustment"** in the LCD adjustment menu, and then press the **"Enter"** key.



```
1. PLL adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_PLL ]
3.Measurement.          Oscilloscope.
  equipment:
4.Adjustment value:     T = 2.2 +- 0.1usec

5.Address for adj :     EEPROM = [ 1F6 ]  DAC = [ 006 ]
  Current value   :              [  48 ]        [  48 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  48    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 48 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

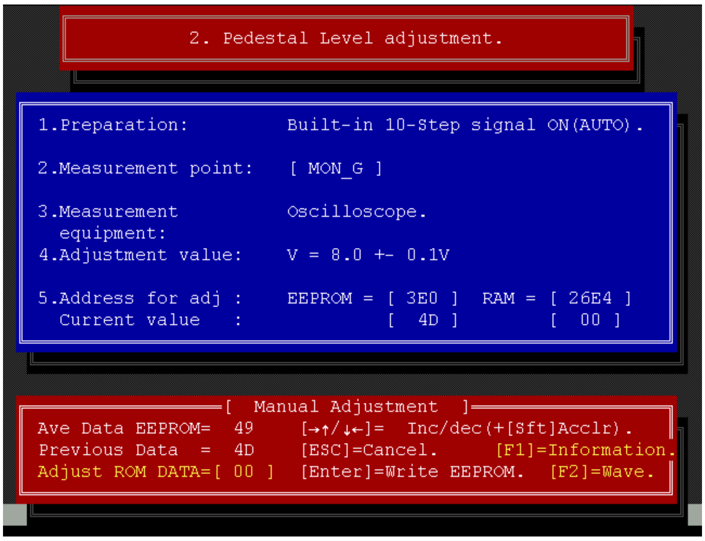
4. Adjust the width (T) to become 2.2±0.1µsec as shown in figure.

Note:
1) Width (T) can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.

5. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

8-2. Pedestal Level Adjustment

1. Connect the oscilloscope to **"MON_G"** on the VFK1308P.
2. Open the **"LCD adjustment menu"**.
3. Select **"2. Pedestal Level adjustment"** in the LCD adjustment menu, and then press the **"Enter"** key.



```
2. Pedestal Level adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:     V = 8.0 +- 0.1V

5.Address for adj :     EEPROM = [ 3E0 ]  RAM = [ 26E4 ]
  Current value   :              [  4D ]        [  00 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  49    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  4D    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

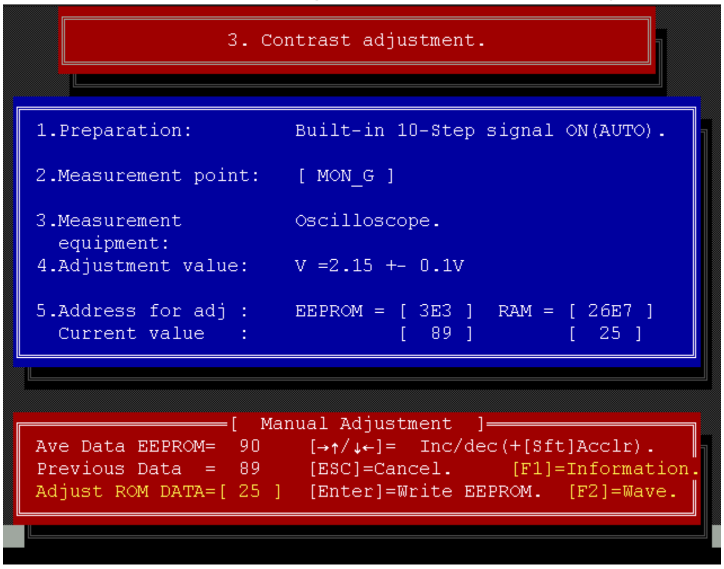
4. Adjust the differential amplitude both 0 step-level (portion **"a"** in figure) to become 8.0±0.1V as shown in figure.

Note:
1) Level (a) can be by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.

5. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

8-3. Contrast Adjustment

1. Connect the oscilloscope to **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“3. Contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



```
            3. Contrast adjustment.

1.Preparation:         Built-in 10-Step signal ON(AUTO).

2.Measurement point:   [ MON_G ]

3.Measurement          Oscilloscope.
  equipment:
4.Adjustment value:    V =2.15 +- 0.1V

5.Address for adj :    EEPROM = [ 3E3 ]  RAM = [ 26E7 ]
  Current value   :             [  89 ]        [  25 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  90    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  89    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 25 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the differential amplitude between 0 step-level and 7 step-level (portion **“V”** in figure) to become 2.15±0.1V as shown in figure.

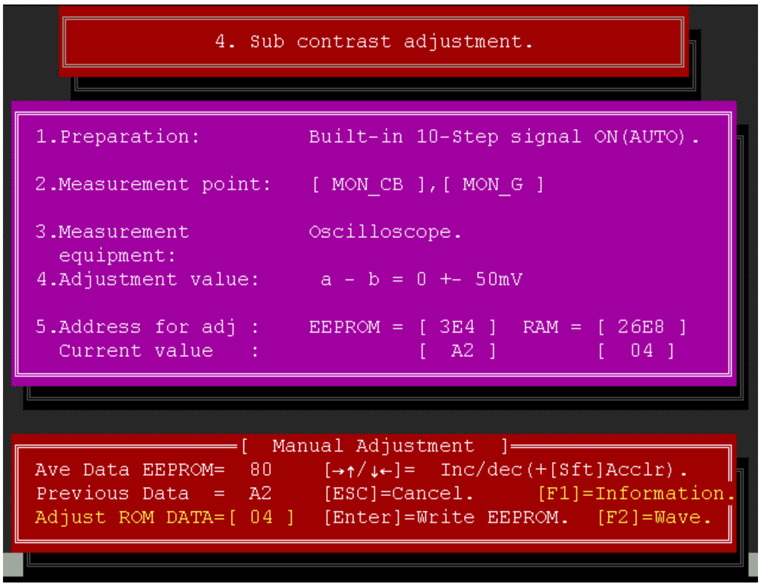
Note:

1) Level (V) can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform.

5. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

8-4. Sub contrast Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“4. Sub contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



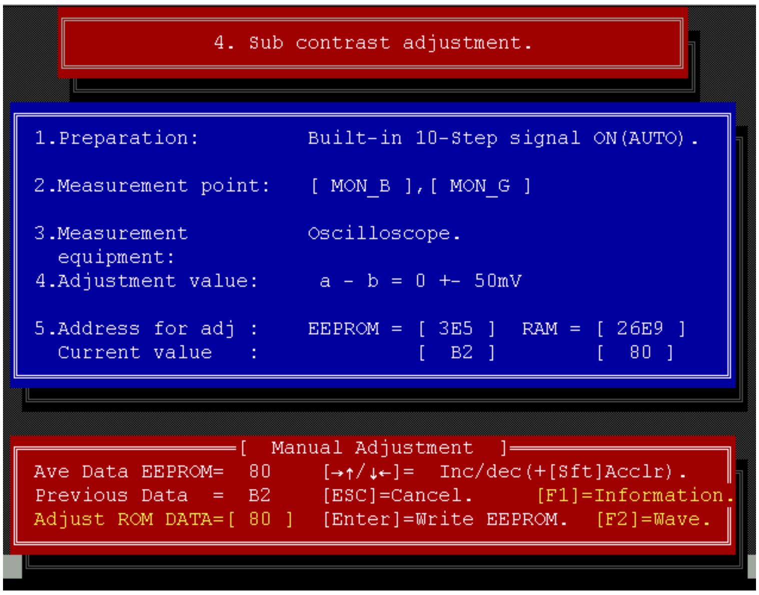
```
4. Sub contrast adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_CB ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 3E4 ]  RAM = [ 26E8 ]
  Current value   :              [  A2 ]        [  04 ]

=[  Manual Adjustment  ]=
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  A2    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 04 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust level difference between **“a”** (MON_CB) and **“b”** (MON_G) to become 0±50mV as shown in figure.

Note:

1) Signal level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to adjusted data write to EEPROM, then change the display indicated as below.



```
4. Sub contrast adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_B ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 3E5 ]  RAM = [ 26E9 ]
  Current value   :              [  B2 ]        [  80 ]

=[  Manual Adjustment  ]=
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  B2    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 80 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust level difference between **“a”** (MON_B) and **“b”** (MON_G) to become 0±50mV as shown in figure.

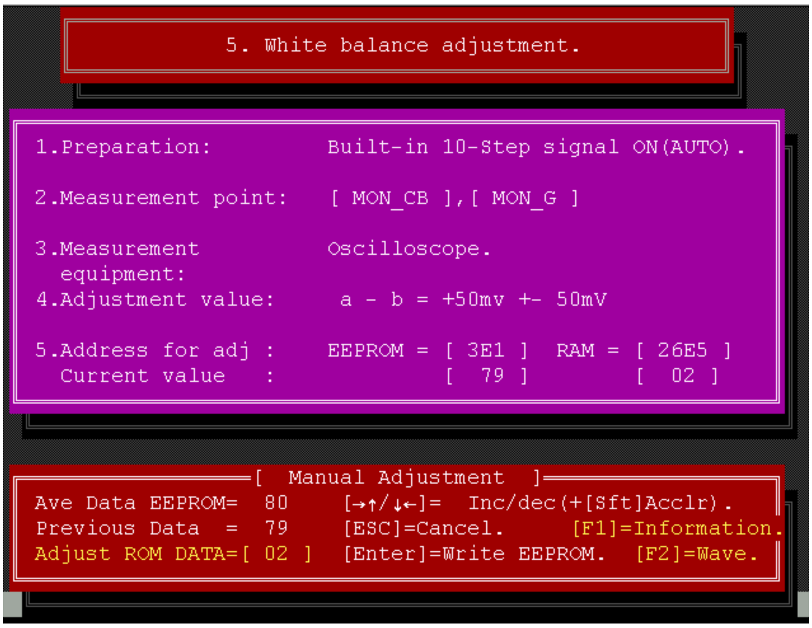
Note:

1) Signal level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

8. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

8-5. White balance Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“5. White balance adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



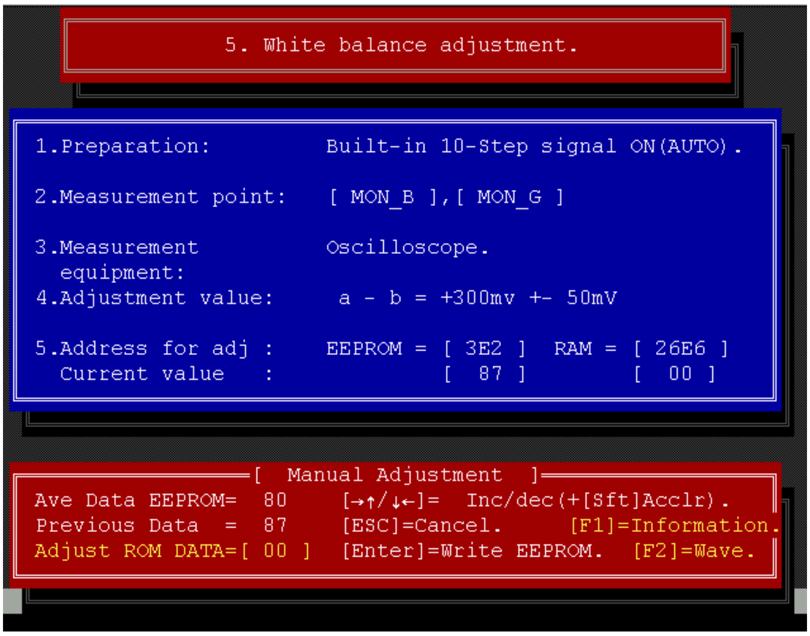
```
5. White balance adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_CB ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = +50mv +- 50mV

5.Address for adj :     EEPROM = [ 3E1 ]  RAM = [ 26E5 ]
  Current value   :              [  79 ]        [  02 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  79    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 02 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust level difference between **“a”** (MON_CB) and **“b”** (MON_G) to become +50mV±50mV as shown in figure.

Note:

1) Signal level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to adjusted data write to EEPROM, then change the display indicated as below.



```
5. White balance adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_B ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = +300mv +- 50mV

5.Address for adj :     EEPROM = [ 3E2 ]  RAM = [ 26E6 ]
  Current value   :              [  87 ]        [  00 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  87    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust level difference between **“a”** (MON_B) and **“b”** (MON_G) to become +300mV±50mV as shown in figure.

Note:

1) Signal level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

8. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

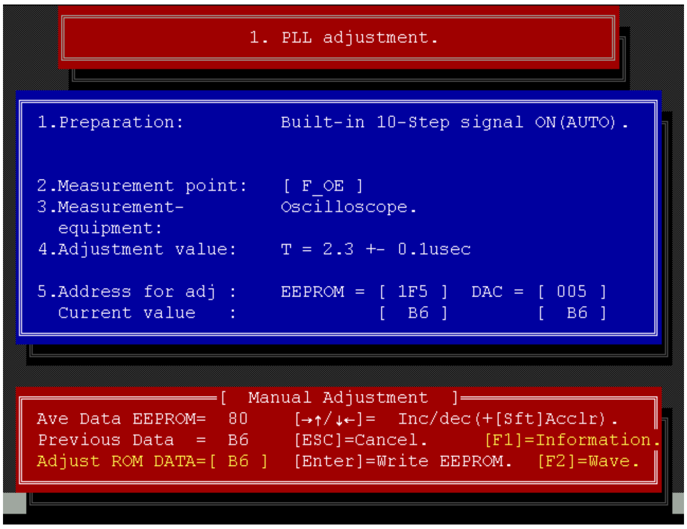
9. EVF ADJUSTMENT PROCEDURE

Be sure to save the VTR EEPROM data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

9-1. EVF PLL Adjustment

1. Connect the oscilloscope to **"F_OE"** on the VFK1308P.
2. Open the **"EVF adjustment menu"**.
3. Select **"1. PLL adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



```
1. PLL adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ F_OE ]
3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     T = 2.3 +- 0.1usec

5.Address for adj :     EEPROM = [ 1F5 ]  DAC = [ 005 ]
  Current value   :              [  B6 ]        [  B6 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  B6    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ B6 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the width (T) to become 2.3±0.1µsec as shown in figure.

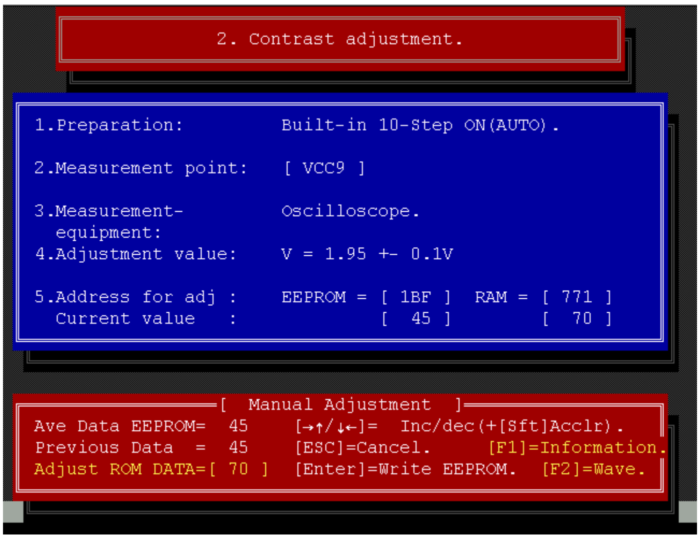
Note:

1) Width (T) can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.

5. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

9-2. EVF Contrast Adjustment

1. Connect the oscilloscope to **"VCC9"** on the VFK1308P.
2. Open the **"EVF adjustment menu"**.
3. Select **"2. Contrast adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



```
2. Contrast adjustment.

1.Preparation:          Built-in 10-Step ON(AUTO).

2.Measurement point:    [ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     V = 1.95 +- 0.1V

5.Address for adj :     EEPROM = [ 1BF ]  RAM = [ 771 ]
  Current value   :              [  45 ]        [  70 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  45    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  45    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 70 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

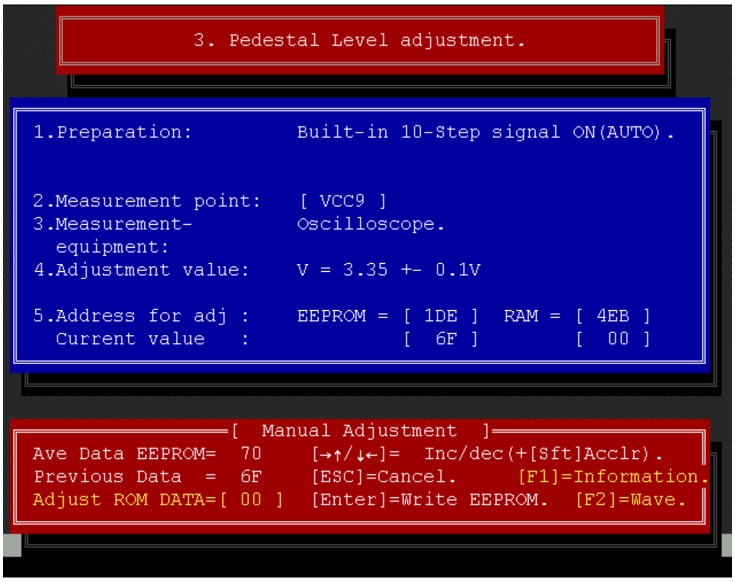
4. Adjust the differential amplitude between 1 step-level and 10 step-level (portion **"V"** in figure) to become 1.95±0.1V as shown in figure.

Note: 1) Level (V) can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform.

5. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

9-3. EVF Pedestal Level Adjustment

1. Connect the oscilloscope to **"VCC9"** on the VFK1308P.
2. Open the **"EVF adjustment menu"**.
3. Select **"3. Pedestal Level adjustment"** in the EVF adjustment menu, and then press the **"Enter"** key.



```
3. Pedestal Level adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).


2.Measurement point:    [ VCC9 ]
3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     V = 3.35 +- 0.1V

5.Address for adj :     EEPROM = [ 1DE ]  RAM = [ 4EB ]
  Current value   :              [  6F ]        [  00 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  70    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  6F    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the differential amplitude both 10 step-level (portion **"V"** in figure) to become 3.35±0.1V as shown in figure.

Note:

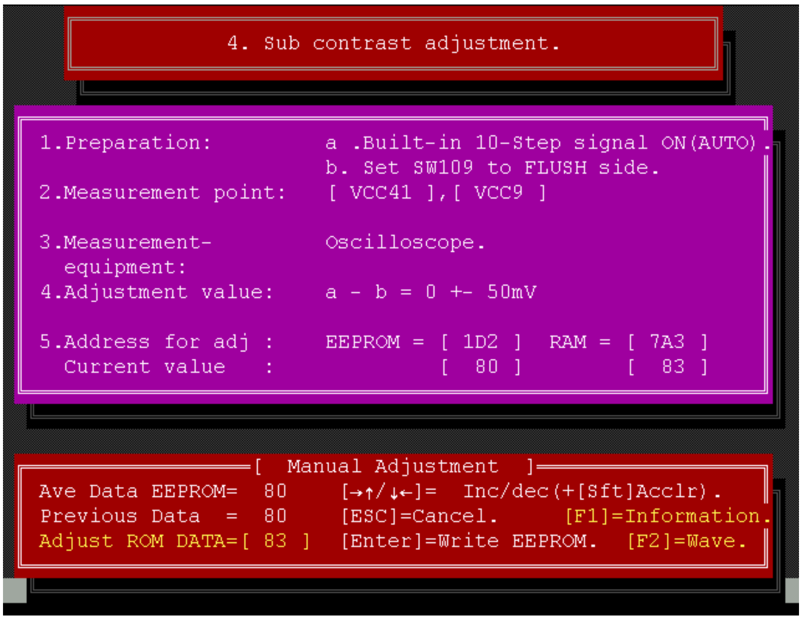
1) Level (V) can be adjusted by press arrow keys on keyboard.

2) Waveform (figure) can be displayed by press F2 key.

5. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

9-4. EVF Sub contrast Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC41”** and **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“4. Sub contrast adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



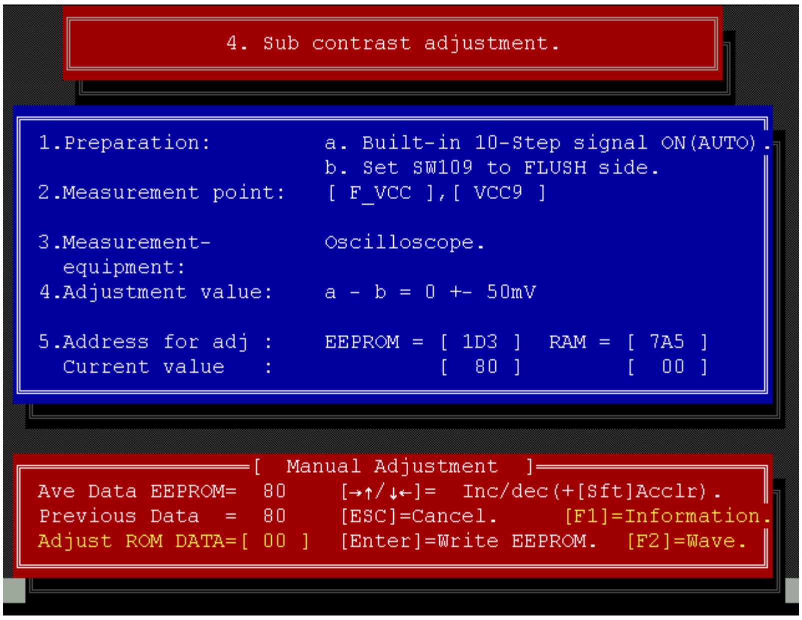
```
4. Sub contrast adjustment.

1.Preparation:          a .Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ VCC41 ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 1D2 ]  RAM = [ 7A3 ]
  Current value   :              [  80 ]        [  83 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  80    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 83 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

5. Adjust level difference between **“a”** (VCC41) and **“b”** (VCC9) to become 0±50mV as shown in figure.

Note:

1) Signal level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to adjusted data write to EEPROM, then change the display indicated as below.



```
4. Sub contrast adjustment.

1.Preparation:          a. Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ F_VCC ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 1D3 ]  RAM = [ 7A5 ]
  Current value   :              [  80 ]        [  00 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  80    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

7. Connect the oscilloscope to **“F_VCC”** and **“VCC9”** on the VFK1308P.
8. Adjust level difference between **“a”** (F_VCC) and **“b”** (VCC9) to become 0±50mV as shown in figure.

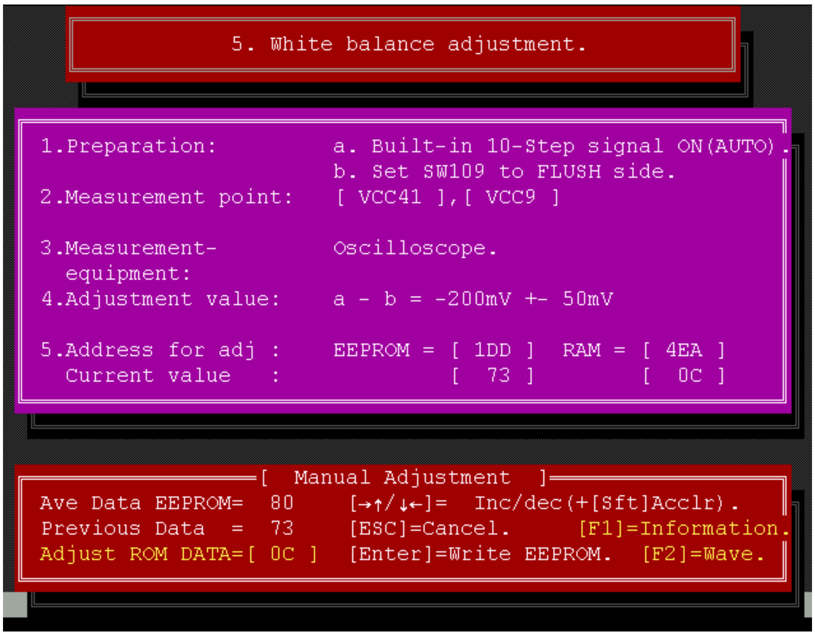
Note:

1) Signal level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

9-5. EVF White balance Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC41”** and **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“5. White balance adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



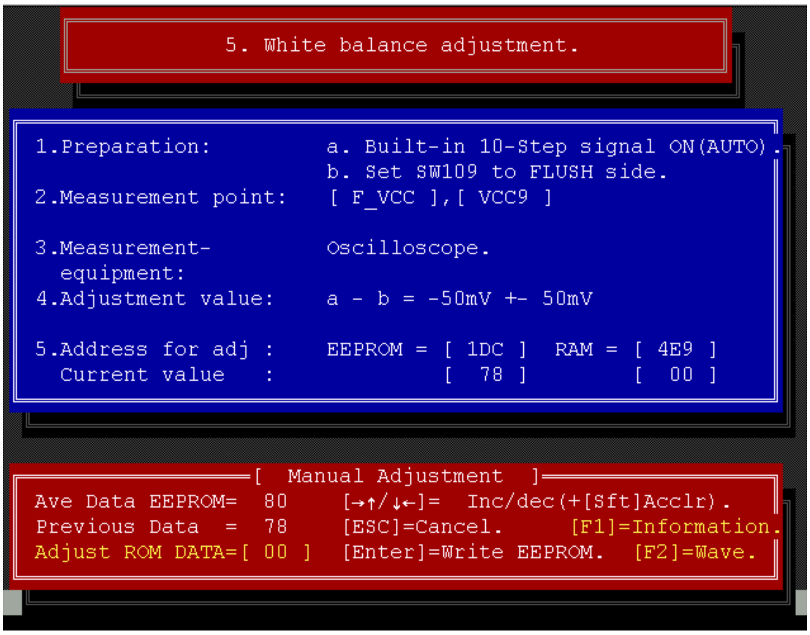
```
5. White balance adjustment.

1.Preparation:          a. Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ VCC41 ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = -200mV +- 50mV

5.Address for adj :     EEPROM = [ 1DD ]  RAM = [ 4EA ]
  Current value   :              [  73 ]        [  0C ]

                    [  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data   =  73    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 0C ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

5. Adjust level difference between **“a”** (VCC41) and **“b”** (VCC9) to become -200mV±50mV as shown in figure.

Note:

1) Signal level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to adjusted data write to EEPROM, then change the display indicated as below.



```
5. White balance adjustment.

1.Preparation:          a. Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ F_VCC ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = -50mV +- 50mV

5.Address for adj :     EEPROM = [ 1DC ]  RAM = [ 4E9 ]
  Current value   :              [  78 ]        [  00 ]

                    [  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data   =  78    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

7. Connect the oscilloscope to **“F_VCC”** and **“VCC9”** on the VFK1308P.
8. Adjust level difference between **“a”** (F_VCC) and **“b”** (VCC9) to become –50mV±50mV as shown in figure.

Note:

1) Signal level can be adjusted by press arrow keys on keyboard.
2) Waveform (figure) can be displayed by press F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to adjusted data write to EEPROM.

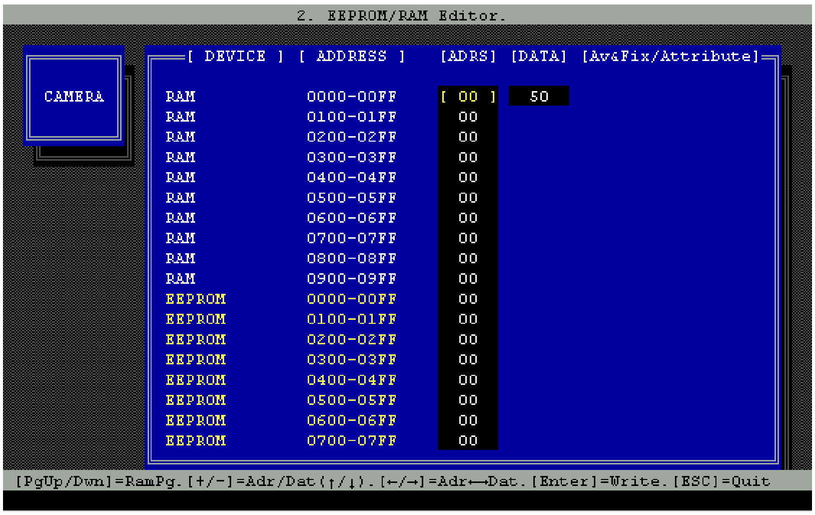
10. OTHER ADJUSTMENT PROCEDURE

Be sure to save the CAMERA EEPROM data into the Personal Computer, before performing adjustment.

10-1. ZOOM SW Center Value Adjustment

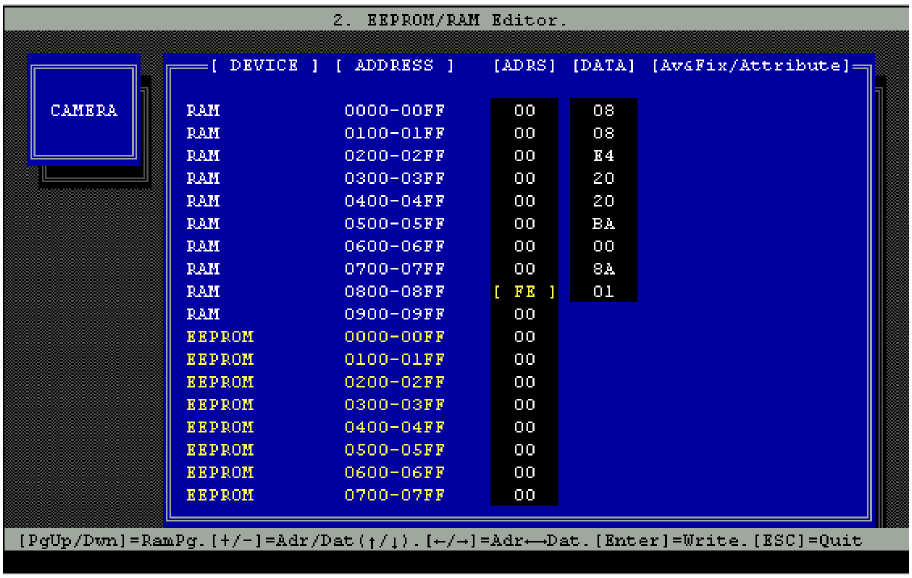
This adjustment have to performed, when the GRIP COVER UNIT or ZOOM SW in GRIP COVER UNIT is replaced.

1. Open the **“Camera adjustment menu”**.
2. Select **“4. Zoom SW center value adjustment”** in the camera adjustment menu, and then press **“ENTER”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press **“ENTER”** key.
4. Below indicated screen is displayed.



```
                     2. EEPROM/RAM Editor.

 CAMERA    [ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

           RAM          0000-00FF   [ 00 ]   50
           RAM          0100-01FF     00
           RAM          0200-02FF     00
           RAM          0300-03FF     00
           RAM          0400-04FF     00
           RAM          0500-05FF     00
           RAM          0600-06FF     00
           RAM          0700-07FF     00
           RAM          0800-08FF     00
           RAM          0900-09FF     00
           EEPROM       0000-00FF     00
           EEPROM       0100-01FF     00
           EEPROM       0200-02FF     00
           EEPROM       0300-03FF     00
           EEPROM       0400-04FF     00
           EEPROM       0500-05FF     00
           EEPROM       0600-06FF     00
           EEPROM       0700-07FF     00
 [PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

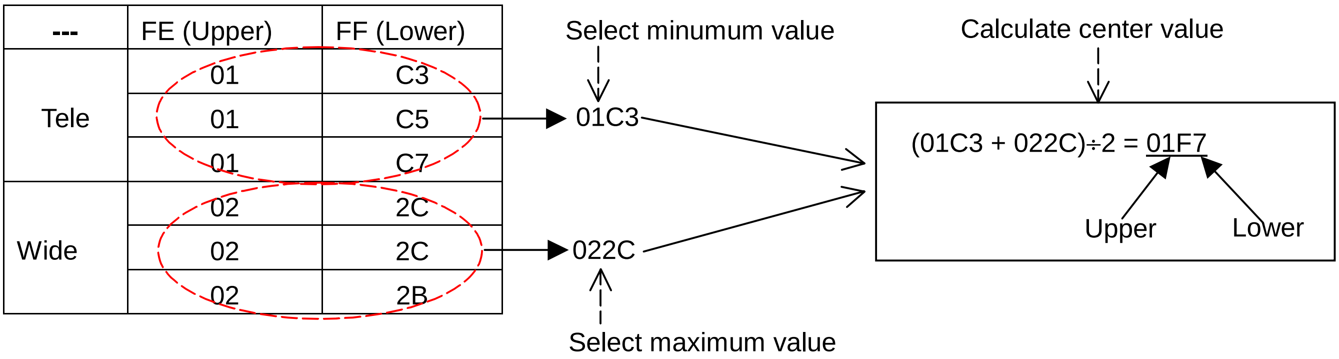
5. Select a line **“RAM 0800 - 08FF”** by arrow key (↑/↓) and input a value as FE to column [ADRS].
6. Press Tele side of zoom switch on Grip Cover side to fully Tele position and release a finger slowly from button.
7. Write down displayed numerical value in column [DATA].



```
                     2. EEPROM/RAM Editor.

 CAMERA    [ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

           RAM          0000-00FF     00     08
           RAM          0100-01FF     00     08
           RAM          0200-02FF     00     E4
           RAM          0300-03FF     00     20
           RAM          0400-04FF     00     20
           RAM          0500-05FF     00     BA
           RAM          0600-06FF     00     00
           RAM          0700-07FF     00     8A
           RAM          0800-08FF   [ FE ]   01
           RAM          0900-09FF     00
           EEPROM       0000-00FF     00
           EEPROM       0100-01FF     00
           EEPROM       0200-02FF     00
           EEPROM       0300-03FF     00
           EEPROM       0400-04FF     00
           EEPROM       0500-05FF     00
           EEPROM       0600-06FF     00
           EEPROM       0700-07FF     00
 [PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

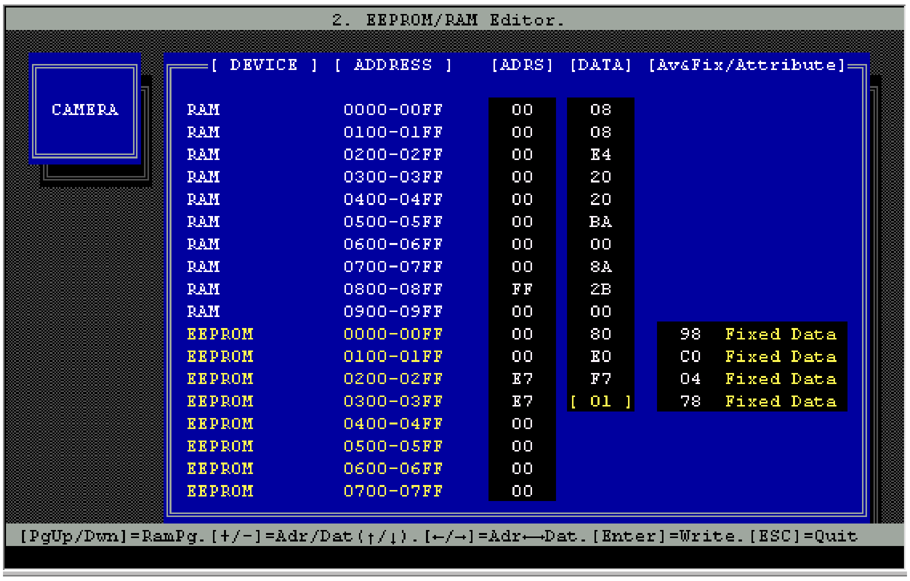
8. Input a value FF to column [ADRS] on line **“RAM 0800 - 08FF”** .
9. Write down displayed numerical value in column [DATA].
10. Repeat step 5 to 9 twice to write down the value.
11. Select the minimum measurement value.
12. Press Wide side of zoom switch on Grip Cover side to fully wide position and release a finger slowly from button and repeat step 5 to 9 three times.
13. Select the maximum measurement value.

<For example>



---	FE (Upper)	FF (Lower)
Tele	01	C3
	01	C5
	01	C7
Wide	02	2C
	02	2C
	02	2B

14. Calculate center value of minumum and maximum value.
15. Select a line **“EEPROM 0200 - 02FF”** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
16. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as lower data value (for example: F7 as indicated as above). And press ENTER key to write to EEPROM.
17. Select a line **“EEPROM 0300 - 03FF”** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
18. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as upper data value (for example: 01 as indicated as above). And press ENTER key to write to EEPROM.



```
                       2. EEPROM/RAM Editor.

 CAMERA    [ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

           RAM          0000-00FF     00     08
           RAM          0100-01FF     00     08
           RAM          0200-02FF     00     E4
           RAM          0300-03FF     00     20
           RAM          0400-04FF     00     20
           RAM          0500-05FF     00     BA
           RAM          0600-06FF     00     00
           RAM          0700-07FF     00     8A
           RAM          0800-08FF     FF     2B
           RAM          0900-09FF     00     00
           EEPROM       0000-00FF     00     80       98  Fixed Data
           EEPROM       0100-01FF     00     E0       C0  Fixed Data
           EEPROM       0200-02FF     E7     F7       04  Fixed Data
           EEPROM       0300-03FF     E7   [ 01 ]     78  Fixed Data
           EEPROM       0400-04FF     00
           EEPROM       0500-05FF     00
           EEPROM       0600-06FF     00
           EEPROM       0700-07FF     00

 [PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

SECTION 5

BLOCK DIAGRAMS

CONTENTS

OVERALL BLOCK DIAGRAM..........BLK-1

SENSOR/PROCESS (AFE / TG & DRIVE / PROCESS) BLOCK DIAGRAM..........BLK-2

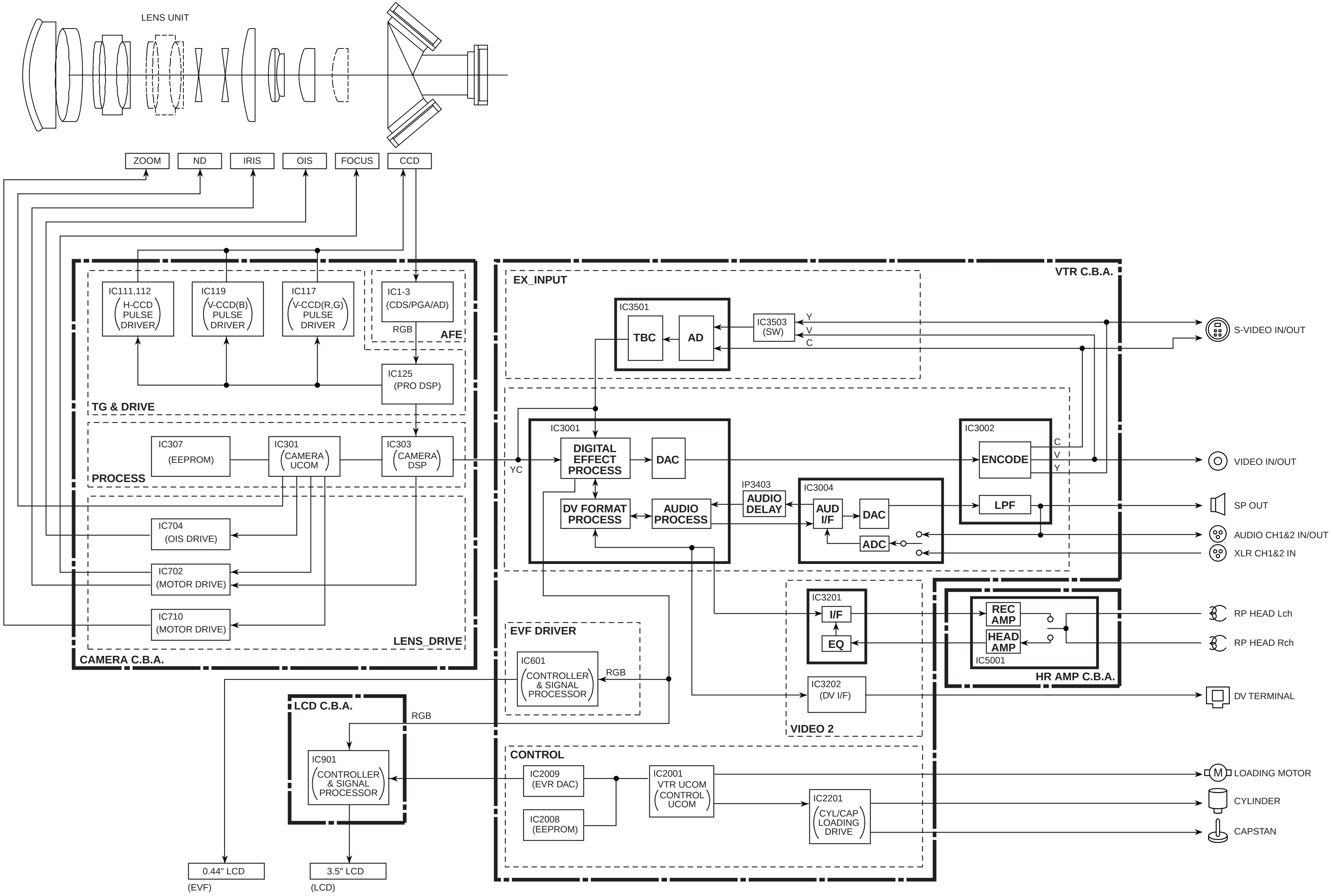
LENS DRIVE (LENS DRIVE / PROCESS) BLOCK DIAGRAM..........BLK-3

VIDEO (VIDEO 1/ VIDEO 2/ EX_INPUT) BLOCK DIAGRAM..........BLK-4

MONITOR (EVF DRIVER / LCD) BLOCK DIAGRAM..........BLK-5

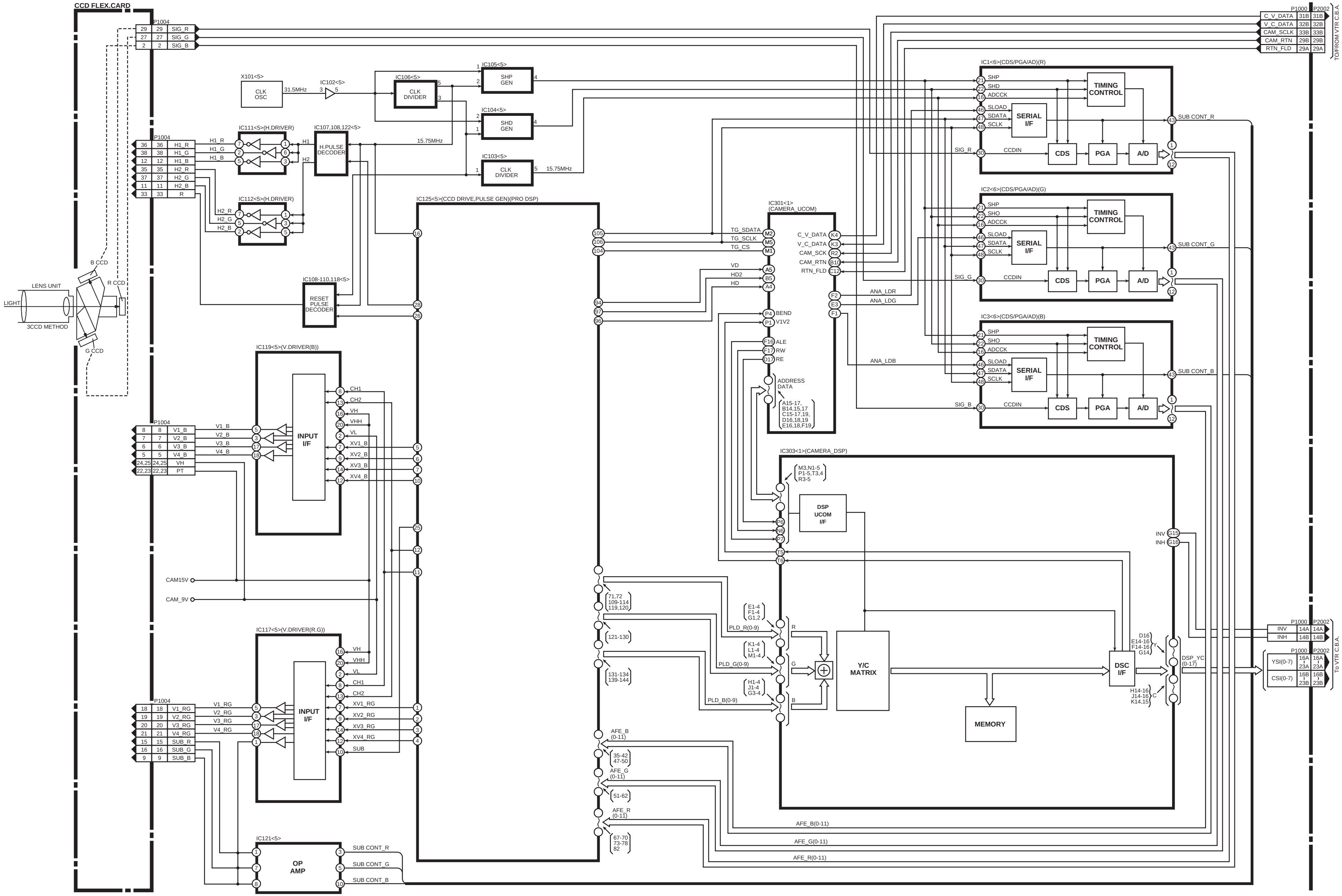
CONTROL (CONTROL/DRIVE) BLOCK DIAGRAM..........BLK-6

OVERALL BLOCK DIAGRAM

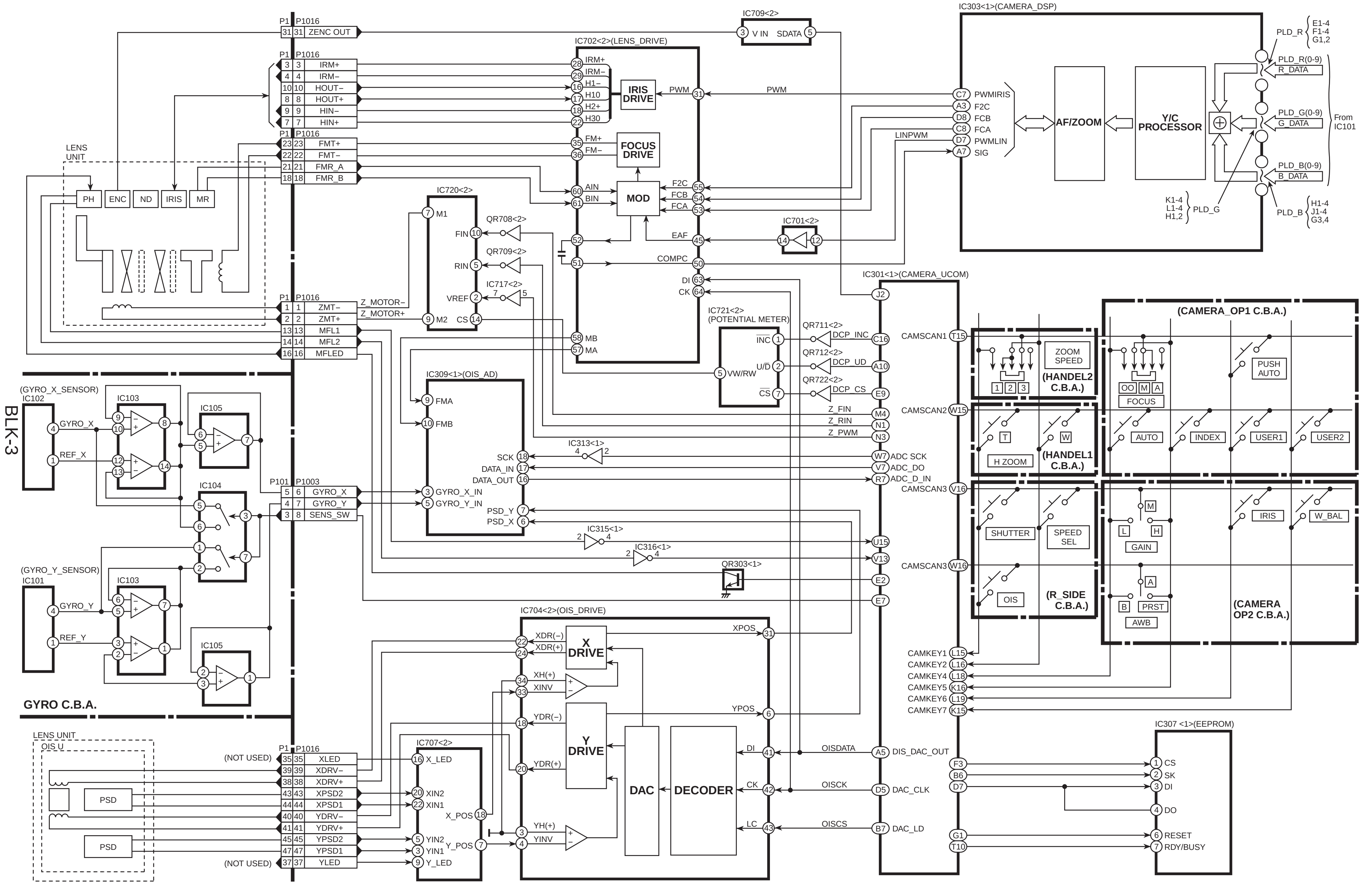


LENS UNIT
ZOOM
ND
IRIS
OIS
FOCUS
CCD
CAMERA C.B.A.
IC111,112 (H-CCD PULSE DRIVER)
IC119 (V-CCD(B) PULSE DRIVER)
IC117 (V-CCD(R,G) PULSE DRIVER)
IC1-3 (CDS/PGA/AD)
RGB
AFE
IC125 (PRO DSP)
TG & DRIVE
IC307 (EEPROM)
IC301 (CAMERA UCOM)
IC303 (CAMERA DSP)
PROCESS
IC704 (OIS DRIVE)
IC702 (MOTOR DRIVE)
IC710 (MOTOR DRIVE)
LENS_DRIVE
VTR C.B.A.
EX_INPUT
IC3501
TBC
AD
IC3503 (SW)
Y
V
C
YC
IC3001
DIGITAL EFFECT PROCESS
DAC
DV FORMAT PROCESS
AUDIO PROCESS
IP3403
AUDIO DELAY
IC3004
AUD I/F
DAC
ADC
IC3002
ENCODE
LPF
C
V
Y
S-VIDEO IN/OUT
VIDEO IN/OUT
SP OUT
AUDIO CH1&2 IN/OUT
XLR CH1&2 IN
EVF DRIVER
IC601 (CONTROLLER & SIGNAL PROCESSOR)
RGB
IC3201
I/F
EQ
IC3202 (DV I/F)
VIDEO 2
REC AMP
HEAD AMP
IC5001
HR AMP C.B.A.
RP HEAD Lch
RP HEAD Rch
DV TERMINAL
LCD C.B.A.
RGB
IC901 (CONTROLLER & SIGNAL PROCESSOR)
CONTROL
IC2009 (EVR DAC)
IC2008 (EEPROM)
IC2001 VTR UCOM (CONTROL UCOM)
IC2201 (CYL/CAP LOADING DRIVE)
M
LOADING MOTOR
CYLINDER
CAPSTAN
0.44" LCD
(EVF)
3.5" LCD
(LCD)

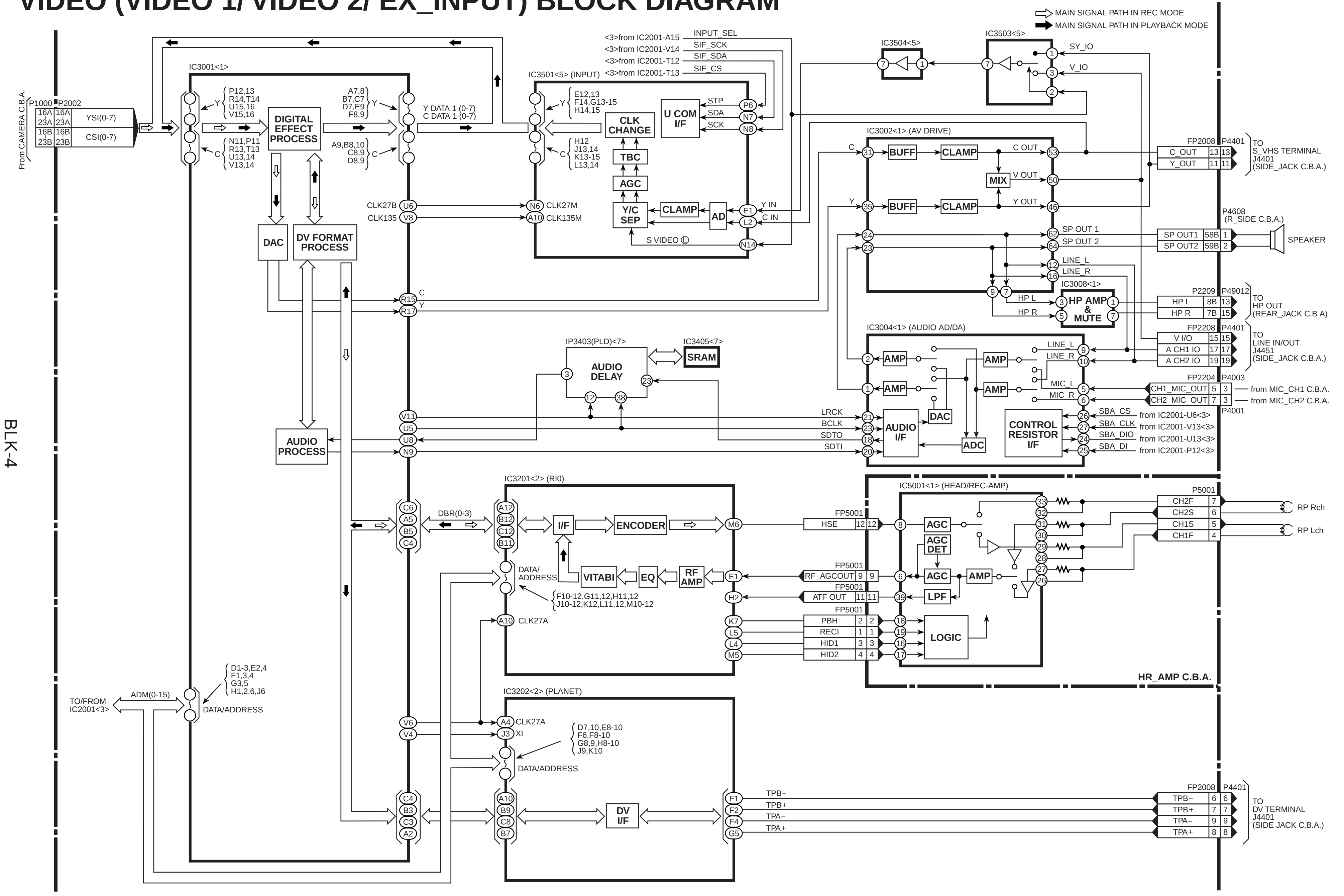
SENSOR/PROCESS(AFE/TG&DRIVE/PROCESS) BLOCK DIAGRAM


CCD FLEX.CARD
P1004
SIG_R
SIG_G
SIG_B
LENS UNIT
LIGHT
3CCD METHOD
B CCD
R CCD
G CCD
X101<5>
CLK OSC
31.5MHz
IC102<5>
IC106<5>
CLK DIVIDER
IC105<5>
SHP GEN
IC104<5>
SHD GEN
IC103<5>
CLK DIVIDER
15.75MHz
IC111<5>(H.DRIVER)
IC112<5>(H.DRIVER)
IC107,108,122<5>
H.PULSE DECODER
H1_R
H1_G
H1_B
H2_R
H2_G
H2_B
H1
H2
IC108-110,118<5>
RESET PULSE DECODER
IC125<5>(CCD DRIVE,PULSE GEN)(PRO DSP)
IC119<5>(V.DRIVER(B))
INPUT I/F
V1_B
V2_B
V3_B
V4_B
VH
PT
CH1
CH2
VHH
VL
XV1_B
XV2_B
XV3_B
XV4_B
CAM15V
CAM_9V
IC117<5>(V.DRIVER(R.G))
V1_RG
V2_RG
V3_RG
V4_RG
SUB_R
SUB_G
SUB_B
XV1_RG
XV2_RG
XV3_RG
XV4_RG
SUB
IC121<5>
OP AMP
SUB CONT_R
SUB CONT_G
SUB CONT_B
IC301<1> (CAMERA_UCOM)
TG_SDATA
TG_SCLK
TG_CS
VD
HD2
HD
C_V_DATA
V_C_DATA
CAM_SCK
CAM_RTN
RTN_FLD
ANA_LDR
ANA_LDG
ANA_LDB
BEND
V1V2
ALE
RW
RE
ADDRESS DATA
A15-17, B14,15,17 C15-17,19, D16,18,19 E16,18,F19
IC303<1>(CAMERA_DSP)
M3,N1-5 P1-5,T3,4 R3-5
DSP UCOM I/F
71,72 109-114 119,120
121-130
131-134 139-144
E1-4 F1-4 G1,2
K1-4 L1-4 M1-4
H1-4 J1-4 G3-4
PLD_R(0-9)
PLD_G(0-9)
PLD_B(0-9)
R
G
B
Y/C MATRIX
MEMORY
DSC I/F
INV
INH
D16 E14-16 F14-16 G14
H14-16 J14-16 K14,15
Y
C
DSP_YC (0-17)
AFE_B (0-11)
35-42 47-50
AFE_G (0-11)
51-62
AFE_R (0-11)
67-70 73-78 82
AFE_B(0-11)
AFE_G(0-11)
AFE_R(0-11)
IC1<6>(CDS/PGA/AD)(R)
IC2<6>(CDS/PGA/AD)(G)
IC3<6>(CDS/PGA/AD)(B)
SHP
SHD
ADCCK
SLOAD
SDATA
SCLK
TIMING CONTROL
SERIAL I/F
SIG_R
SIG_G
SIG_B
CCDIN
CDS
PGA
A/D
SUB CONT_R
SUB CONT_G
SUB CONT_B
P1000
P2002
C_V_DATA
V_C_DATA
CAM_SCLK
CAM_RTN
RTN_FLD
TO/FROM VTR C.B.A.
INV
INH
YSI(0-7)
CSI(0-7)
To VTR C.B.A.

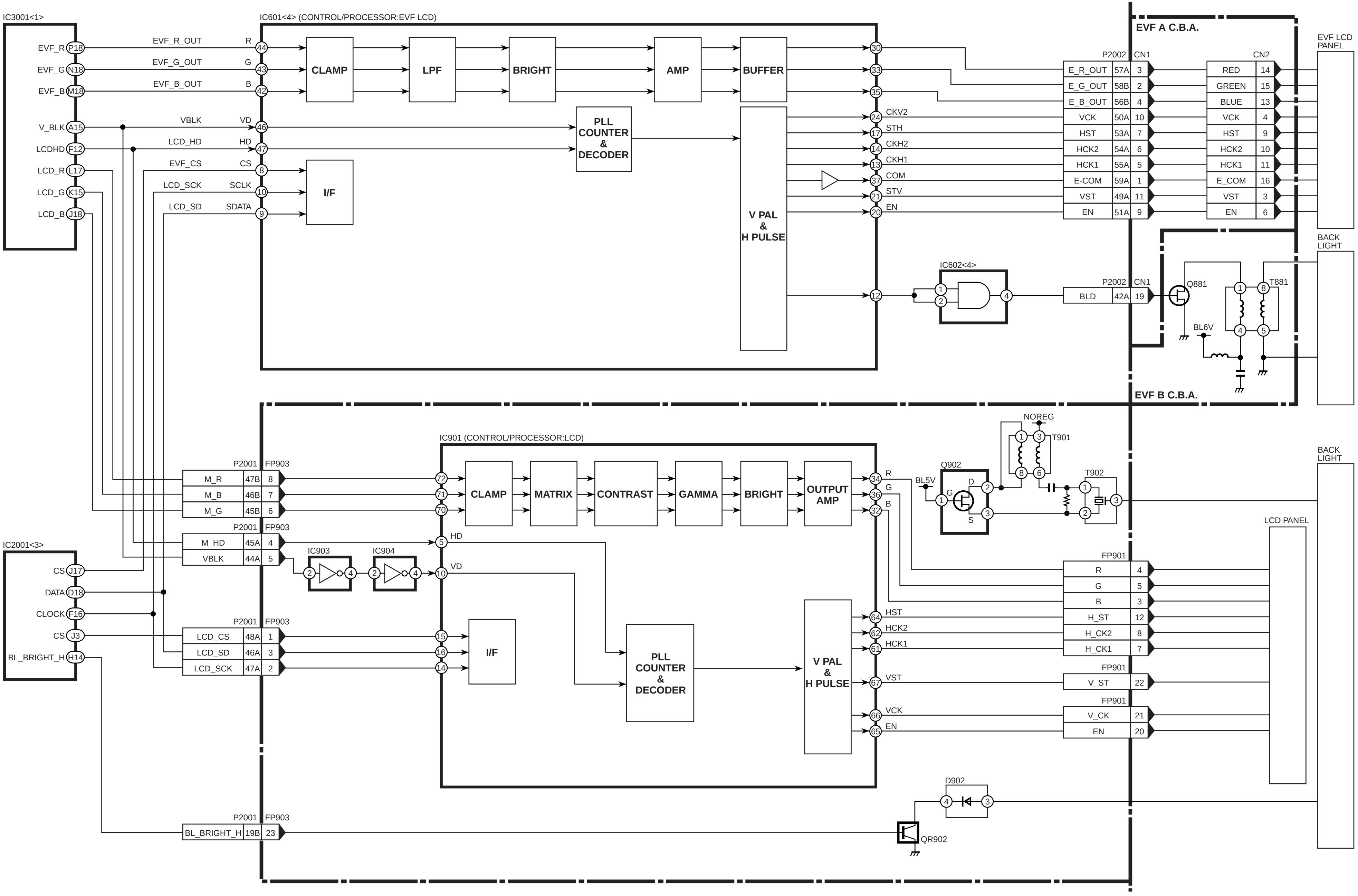
LENS DRIVE (LENS DRIVE / PROCESS) BLOCK DIAGRAM


BLK-3
P1 P1016
ZENC OUT
IRM+
IRM−
HOUT−
HOUT+
HIN−
HIN+
FMT+
FMT−
FMR_A
FMR_B
LENS UNIT
PH
ENC
ND
IRIS
MR
ZMT−
ZMT+
MFL1
MFL2
MFLED
Z_MOTOR−
Z_MOTOR+
IC709<2>
V IN
SDATA
IC702<2>(LENS_DRIVE)
IRIS DRIVE
FOCUS DRIVE
MOD
PWM
H1−
H10
H2+
H30
FM+
FM−
AIN
BIN
F2C
FCB
FCA
EAF
COMPC
DI
CK
MB
MA
IC701<2>
IC720<2>
M1
M2
FIN
RIN
VREF
CS
QR708<2>
QR709<2>
IC717<2>
IC303<1>(CAMERA_DSP)
PWMIRIS
F2C
FCB
FCA
PWMLIN
SIG
LINPWM
AF/ZOOM
Y/C PROCESSOR
PLD_R
PLD_R(0-9)
R_DATA
PLD_G(0-9)
G_DATA
PLD_B(0-9)
B_DATA
PLD_G
PLD_B
E1-4
F1-4
G1,2
K1-4
L1-4
H1,2
H1-4
J1-4
G3,4
From IC101
IC301<1>(CAMERA_UCOM)
IC721<2>
(POTENTIAL METER)
INC
U/D
VW/RW
CS
QR711<2>
QR712<2>
QR722<2>
DCP_INC
DCP_UD
DCP_CS
Z_FIN
Z_RIN
Z_PWM
ADC SCK
ADC_DO
ADC_D_IN
CAMSCAN1
CAMSCAN2
CAMSCAN3
CAMSCAN4
CAMKEY1
CAMKEY2
CAMKEY4
CAMKEY5
CAMKEY6
CAMKEY7
(CAMERA_OP1 C.B.A.)
ZOOM SPEED
(HANDEL2 C.B.A.)
PUSH AUTO
FOCUS
OO
M
A
H ZOOM
T
W
(HANDEL1 C.B.A.)
AUTO
INDEX
USER1
USER2
SHUTTER
SPEED SEL
IRIS
W_BAL
GAIN
L
H
OIS
(R_SIDE C.B.A.)
B
PRST
AWB
(CAMERA OP2 C.B.A.)
(GYRO_X_SENSOR)
IC102
GYRO_X
REF_X
IC103
IC105
IC104
(GYRO_Y_SENSOR)
IC101
GYRO_Y
REF_Y
GYRO C.B.A.
P101 P1003
GYRO_X
GYRO_Y
SENS_SW
IC309<1>(OIS_AD)
FMA
FMB
SCK
DATA_IN
DATA_OUT
GYRO_X_IN
GYRO_Y_IN
PSD_Y
PSD_X
IC313<1>
IC315<1>
IC316<1>
QR303<1>
IC704<2>(OIS_DRIVE)
X DRIVE
Y DRIVE
DAC
DECODER
XDR(−)
XDR(+)
XH(+)
XINV
YDR(−)
YDR(+)
YH(+)
YINV
XPOS
YPOS
DI
CK
LC
OISDATA
OISCK
OISCS
DIS_DAC_OUT
DAC_CLK
DAC_LD
IC707<2>
X_LED
XIN2
XIN1
X_POS
YIN2
YIN1
Y_POS
Y_LED
LENS UNIT
OIS U
PSD
(NOT USED)
XLED
XDRV−
XDRV+
XPSD2
XPSD1
YDRV−
YDRV+
YPSD2
YPSD1
YLED
IC307 <1>(EEPROM)
CS
SK
DI
DO
RESET
RDY/BUSY

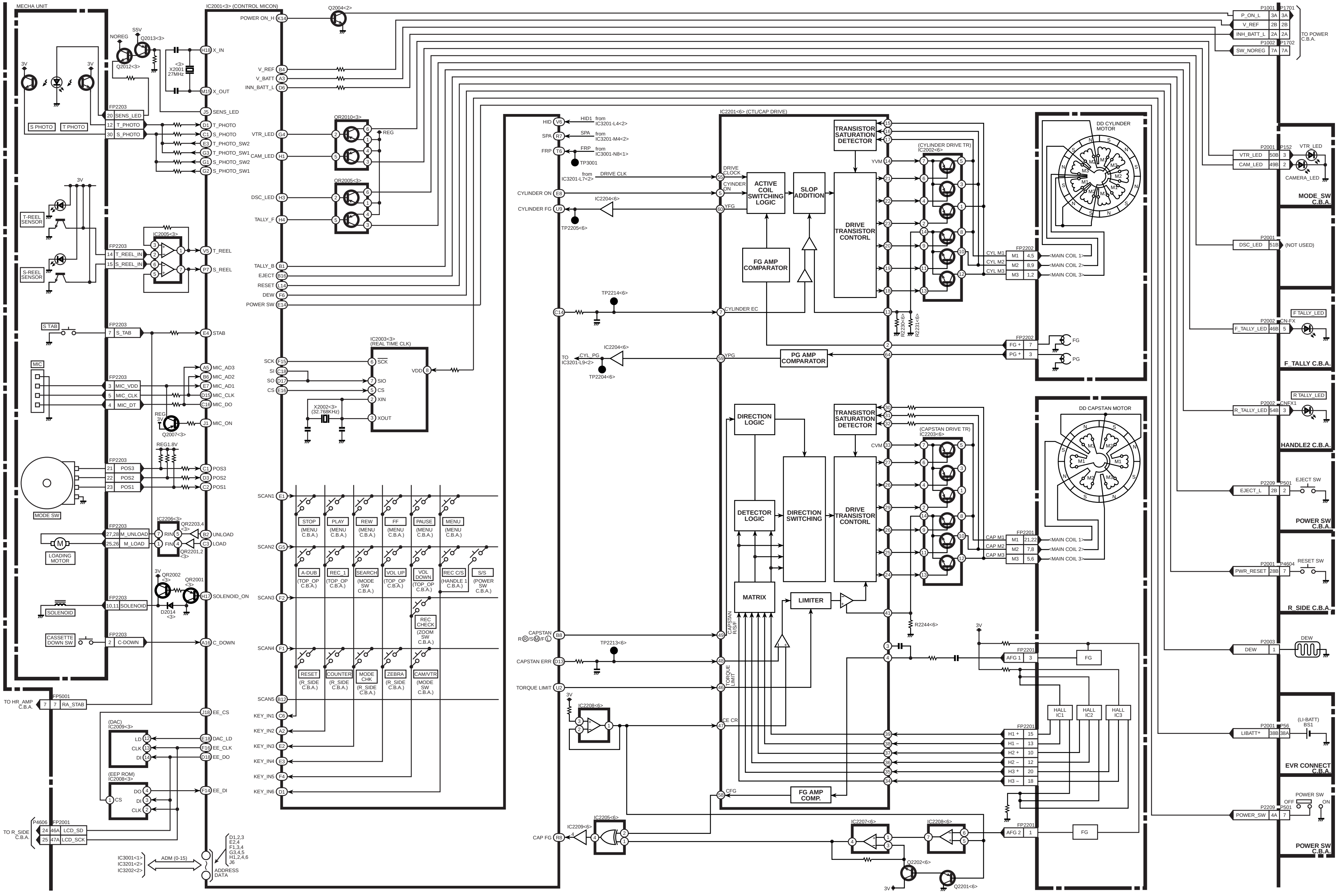
VIDEO (VIDEO 1/ VIDEO 2/ EX_INPUT) BLOCK DIAGRAM


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
From CAMERA C.B.A.
P1000
P2002
16A 23A
16B 23B
YSI(0-7)
CSI(0-7)
IC3001<1>
P12,13 R14,T14 U15,16 V15,16
N11,P11 R13,T13 U13,14 V13,14
DIGITAL EFFECT PROCESS
A7,8 B7,C7 D7,E9 F8,9
A9,B8,10 C8,9 D8,9
Y DATA 1 (0-7)
C DATA 1 (0-7)
DAC
DV FORMAT PROCESS
CLK27B
CLK135
U6
V8
R15
R17
AUDIO PROCESS
V11
U5
U8
N9
C6 A5 B5 C4
DBR(0-3)
TO/FROM IC2001<3>
ADM(0-15)
D1-3,E2,4 F1,3,4 G3,5 H1,2,6,J6
DATA/ADDRESS
V6
V4
C4 B3 C3 A2
IC3501<5> (INPUT)
E12,13 F14,G13-15 H14,15
H12 J13,14 K13-15 L13,14
CLK CHANGE
TBC
AGC
Y/C SEP
CLAMP
AD
U COM I/F
STP
SDA
SCK
P6
N7
N8
E1
L2
N14
Y IN
C IN
S VIDEO
N6 CLK27M
A10 CLK135M
<3>from IC2001-A15
<3>from IC2001-V14
<3>from IC2001-T12
<3>from IC2001-T13
INPUT_SEL
SIF_SCK
SIF_SDA
SIF_CS
IC3504<5>
IC3503<5>
SY_IO
V_IO
IC3002<1> (AV DRIVE)
BUFF
CLAMP
MIX
C OUT
V OUT
Y OUT
SP OUT 1
SP OUT 2
LINE_L
LINE_R
FP2008
P4401
C_OUT 13 13
Y_OUT 11 11
TO S_VHS TERMINAL J4401 (SIDE_JACK C.B.A.)
P4608 (R_SIDE C.B.A.)
SP OUT1 58B 1
SP OUT2 59B 2
SPEAKER
IC3008<1>
HP AMP & MUTE
HP L
HP R
P2209
P49012
HP L 8B 13
HP R 7B 15
TO HP OUT (REAR_JACK C.B A)
IC3004<1> (AUDIO AD/DA)
AMP
DAC
ADC
AUDIO I/F
CONTROL RESISTOR I/F
LINE_L
LINE_R
MIC_L
MIC_R
LRCK
BCLK
SDTO
SDTI
SBA_CS
SBA_CLK
SBA_DIO
SBA_DI
FP2208
P4401
V I/O 15 15
A CH1 IO 17 17
A CH2 IO 19 19
TO LINE IN/OUT J4451 (SIDE_JACK C.B.A.)
FP2204
P4003
CH1_MIC_OUT 5 3
CH2_MIC_OUT 7 3
from MIC_CH1 C.B.A.
from MIC_CH2 C.B.A.
P4001
from IC2001-U6<3>
from IC2001-V13<3>
from IC2001-U13<3>
from IC2001-P12<3>
IP3403(PLD)<7>
AUDIO DELAY
IC3405<7>
SRAM
IC3201<2> (RI0)
A12 B12 C12 B11
I/F
ENCODER
VITABI
EQ
RF AMP
M6
E1
H2
K7
L5
L4
M5
DATA/ ADDRESS
F10-12,G11,12,H11,12 J10-12,K12,L11,12,M10-12
A10 CLK27A
IC5001<1> (HEAD/REC-AMP)
FP5001
HSE 12 12
RF_AGCOUT 9 9
ATF OUT 11 11
PBH 2 2
RECI 1 1
HID1 3 3
HID2 4 4
AGC
AGC DET
AMP
LPF
LOGIC
P5001
CH2F 7
CH2S 6
CH1S 5
CH1F 4
RP Rch
RP Lch
HR_AMP C.B.A.
IC3202<2> (PLANET)
A4 CLK27A
J3 XI
D7,10,E8-10 F6,F8-10 G8,9,H8-10 J9,K10
DATA/ADDRESS
A10 B9 C8 B7
DV I/F
F1 F2 F4 G5
TPB−
TPB+
TPA−
TPA+
FP2008
P4401
TPB− 6 6
TPB+ 7 7
TPA− 9 9
TPA+ 8 8
TO DV TERMINAL J4401 (SIDE JACK C.B.A.)

MONITOR (EVF DRIVER / LCD) BLOCK DIAGRAM


IC3001<1>
EVF_R P18
EVF_G N18
EVF_B M18
V_BLK A15
LCDHD F12
LCD_R L17
LCD_G K15
LCD_B J18
EVF_R_OUT R
EVF_G_OUT G
EVF_B_OUT B
VBLK VD
LCD_HD HD
EVF_CS CS
LCD_SCK SCLK
LCD_SD SDATA
IC601<4> (CONTROL/PROCESSOR:EVF LCD)
44 43 42 46 47 8 10 9
CLAMP
LPF
BRIGHT
AMP
BUFFER
PLL COUNTER & DECODER
I/F
V PAL & H PULSE
30 33 35
24 CKV2
17 STH
14 CKH2
13 CKH1
37 COM
21 STV
20 EN
12
IC602<4>
1 2 4
EVF A C.B.A.
P2002 CN1
E_R_OUT 57A 3
E_G_OUT 58B 2
E_B_OUT 56B 4
VCK 50A 10
HST 53A 7
HCK2 54A 6
HCK1 55A 5
E-COM 59A 1
VST 49A 11
EN 51A 9
CN2
RED 14
GREEN 15
BLUE 13
VCK 4
HST 9
HCK2 10
HCK1 11
E_COM 16
VST 3
EN 6
EVF LCD PANEL
BACK LIGHT
P2002 CN1
BLD 42A 19
Q881
T881
1 8 4 5
BL6V
EVF B C.B.A.
NOREG
T901
1 3 8 6
Q902
BL5V
G D S
1 2 3
T902
1 2 3
IC901 (CONTROL/PROCESSOR:LCD)
P2001 FP903
M_R 47B 8
M_B 46B 7
M_G 45B 6
72 71 70
CLAMP
MATRIX
CONTRAST
GAMMA
BRIGHT
OUTPUT AMP
34 R
36 G
32 B
P2001 FP903
M_HD 45A 4
VBLK 44A 5
5 HD
IC903
IC904
2 4 2 4
10 VD
IC2001<3>
CS J17
DATA D18
CLOCK F16
CS J3
BL_BRIGHT_H H14
P2001 FP903
LCD_CS 48A 1
LCD_SD 46A 3
LCD_SCK 47A 2
15 16 14
I/F
PLL COUNTER & DECODER
V PAL & H PULSE
64 HST
62 HCK2
61 HCK1
67 VST
66 VCK
65 EN
FP901
R 4
G 5
B 3
H_ST 12
H_CK2 8
H_CK1 7
FP901
V_ST 22
FP901
V_CK 21
EN 20
LCD PANEL
BACK LIGHT
D902
4 3
P2001 FP903
BL_BRIGHT_H 19B 23
QR902

CONTROL (CONTROL/DRIVE) BLOCK DIAGRAM

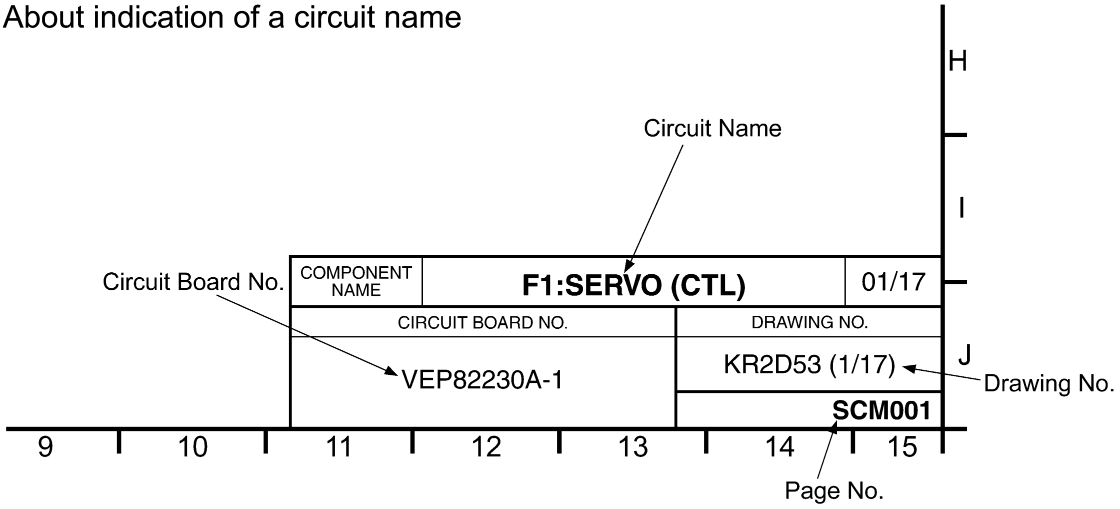


MECHA UNIT
IC2001<3> (CONTROL MICON)
Q2004<2>
POWER ON_H
NOREG
S5V
Q2013<3>
Q2012<3>
X_IN
X2001 <3> 27MHz
X_OUT
V_REF
V_BATT
INN_BATT_L
S PHOTO
T PHOTO
FP2203
SENS_LED
T_PHOTO
S_PHOTO
T_PHOTO_SW2
T_PHOTO_SW1
S_PHOTO_SW2
S_PHOTO_SW1
QR2010<3>
REG
VTR_LED
CAM_LED
QR2005<3>
DSC_LED
TALLY_F
T-REEL SENSOR
S-REEL SENSOR
IC2005<3>
T_REEL_IN
S_REEL_IN
T_REEL
S_REEL
TALLY_B
EJECT
RESET
DEW
POWER SW
S TAB
S_TAB
STAB
MIC
MIC_VDD
MIC_CLK
MIC_DT
MIC_AD3
MIC_AD2
MIC_AD1
MIC_CLK
MIC_DO
MIC_ON
Q2007<3>
REG1.8V
MODE SW
POS3
POS2
POS1
IC2003<3> (REAL TIME CLK)
SCK
SI
SO
CS
SIO
XIN
XOUT
VDD
X2002<3> (32.768KHz)
LOADING MOTOR
M_UNLOAD
M_LOAD
IC2206<3>
RIN
FIN
QR2203,4 <3>
QR2201,2 <3>
UNLOAD
LOAD
QR2002 <3>
QR2001 <3>
SOLENOID
SOLENOID_ON
D2014 <3>
CASSETTE DOWN SW
C-DOWN
C_DOWN
TO HR_AMP C.B.A.
FP5001
RA_STAB
EE_CS
(DAC) IC2009<3>
LD
CLK
DI
DAC_LD
EE_CLK
EE_DO
(EEP ROM) IC2008<3>
DO
EE_DI
TO R_SIDE C.B.A.
P4606
FP2001
LCD_SD
LCD_SCK
IC3001<1>
IC3201<2>
IC3202<2>
ADM (0-15)
D1,2,3 E2,4 F1,3,4 G3,4,5 H1,2,4,6 J6
ADDRESS DATA
SCAN1
SCAN2
SCAN3
SCAN4
SCAN5
KEY_IN1
KEY_IN2
KEY_IN3
KEY_IN4
KEY_IN5
KEY_IN6
STOP
PLAY
REW
FF
PAUSE
MENU
(MENU C.B.A.)
A-DUB
REC_1
SEARCH
VOL UP
VOL DOWN
REC C/S
S/S
(TOP_OP C.B.A.)
(MODE SW C.B.A.)
(HANDLE 1 C.B.A.)
(POWER SW C.B.A.)
REC CHECK
(ZOOM SW C.B.A.)
RESET
COUNTER
MODE CHK
ZEBRA
CAM/VTR
(R_SIDE C.B.A.)
HID
SPA
FRP
HID1 from IC3201-L4<2>
SPA from IC3201-M4<2>
FRP from IC3001-N8<1>
TP3001
from IC3201-L7<2>
DRIVE CLK
CYLINDER ON
CYLINDER FG
IC2204<6>
TP2205<6>
TP2214<6>
TO IC3201-L9<2>
CYL_PG
TP2204<6>
IC2201<6> (CTL/CAP DRIVE)
DRIVE CLOCK
CYLINDER ON
YFG
ACTIVE COIL SWITCHING LOGIC
SLOP ADDITION
TRANSISTOR SATURATION DETECTOR
DRIVE TRANSISTOR CONTORL
FG AMP COMPARATOR
CYLINDER EC
YPG
PG AMP COMPARATOR
(CYLINDER DRIVE TR) IC2002<6>
YVM
R2230<6>
R2231<6>
CYL M1
CYL M2
CYL M3
FP2202
M1
M2
M3
MAIN COIL 1
MAIN COIL 2
MAIN COIL 3
FG +
PG +
FG
PG
DD CYLINDER MOTOR
DIRECTION LOGIC
DETECTOR LOGIC
DIRECTION SWITCHING
MATRIX
LIMITER
(CAPSTAN DRIVE TR) IC2203<6>
CVM
CAP M1
CAP M2
CAP M3
FP2201
DD CAPSTAN MOTOR
R2244<6>
CAPSTAN R/S/M/F/L
CAPSTAN R/S/F
CAPSTAN ERR
TP2213<6>
TORQUE LIMIT
IC2208<6>
CE CR
CFG
FG AMP COMP.
CAP FG
IC2209<6>
IC2205<6>
IC2207<6>
Q2202<6>
Q2201<6>
AFG 1
AFG 2
HALL IC1
HALL IC2
HALL IC3
H1 +
H1 –
H2 +
H2 –
H3 +
H3 –
P1001
P1701
P_ON_L
V_REF
INH_BATT_L
P1002
P1702
SW_NOREG
TO POWER C.B.A.
P2001
P152
VTR_LED
CAM_LED
CAMERA_LED
MODE_SW C.B.A.
DSC_LED
(NOT USED)
P2002
CN-FX
F_TALLY_LED
F TALLY_LED
F_TALLY C.B.A.
CNFX1
R_TALLY_LED
R TALLY_LED
HANDLE2 C.B.A.
P2209
P501
EJECT SW
EJECT_L
POWER SW C.B.A.
P4604
RESET SW
PWR_RESET
R_SIDE C.B.A.
P2003
DEW
P56
(LI-BATT) BS1
LIBATT+
EVR CONNECT C.B.A.
POWER SW
OFF
ON
POWER_SW
POWER SW C.B.A.

SECTION 6

SCHEMATIC DIAGRAMS

About indication of a circuit name


H
Circuit Name
I
Circuit Board No.
COMPONENT NAME
F1:SERVO (CTL)
01/17
CIRCUIT BOARD NO.
DRAWING NO.
J
VEP82230A-1
KR2D53 (1/17)
Drawing No.
SCM001
9
10
11
12
13
14
15
Page No.

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 8

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

INTERCONNTION

INTERCONNTION (1/1).. SCM001

VTR

VTR (VIDEO 1) (1/8).. SCM002
VTR (VIDEO 2) (2/8).. SCM003
VTR (CONTROL) (3/8) SCM004
VTR (EVF DRIVER) (4/8)... SCM005
VTR (EX_INPUT) (5/8) SCM006
VTR (DRIVE) (6/8).. SCM007
VTR (AUDIO DELAY) (7/8) SCM008
VTR (CN) (8/8).. SCM009

CAMERA

CAMERA (PROCESS) (1/5) SCM010
CAMERA (LENS_DRIVE) (2/5)................................. SCM011
CAMERA (SUB_CN) (3/5) SCM012
CAMERA (AFE) (4/5).. SCM013
CAMERA (TG & DRIVE) (5/5)................................... SCM014

POWER

POWER (1/2).. SCM015
POWER (2/2).. SCM016

POWER 2

POWER 2 (1/1)... SCM017

HR AMP

HR AMP (1/1) SCM018

R SIDE

R SIDE (1/3) SCM019
R SIDE (2/3) SCM020
R SIDE (3/3) SCM021

CAMERA OP1

CAMERA OP1 (1/1).. SCM022

CAMERA OP2

CAMERA OP2 (1/1).. SCM023

MENU

MENU (1/1)... SCM024

HANDLE 1

HANDLE 1 (1/2)... SCM025
HANDLE 1 (2/2)... SCM026

HANDLE 2

HANDLE 2 (1/1)... SCM027

MIC

MIC (1/1) SCM028

EVR CONNECT

EVR CONNECT (1/1) SCM029

VC_CONNECT

VC_CONNECT (1/1).. SCM030

REAR JACK CONNECT FLEX

REAR JACK CONNECT FLEX (1/1)......................... SCM031

REAR JACK

REAR JACK (1/1) SCM032

POWER SW

POWER SW (1/1).. SCM033

TOP OP

TOP OP (1/1) SCM034

GYRO

GYRO (1/1) SCM035

SIDE JACK

SIDE JACK (1/3)... SCM036
SIDE JACK (1/3)... SCM037
SIDE JACK (1/3)... SCM038

MIC CH2

MIC CH2 (1/1) SCM039

MIC CH1

MIC CH1 (1/1) SCM040

MODE SW

MODE SW (1/1)... SCM041

BATTERY

BATTERY (1/1).. SCM042

MONITOR

MONITOR (1/1) SCM043

HALL SENSOR

HALL SENSOR (1/1) SCM043

EVF_A

EVF_A (1/1) SCM044

EVF_B

EVF_B (1/1) SCM044

LCD OPEN SW

LCD OPEN SW (1/1)...SCM044

EJECT

EJECT (1/1) SCM044

F_TALLY

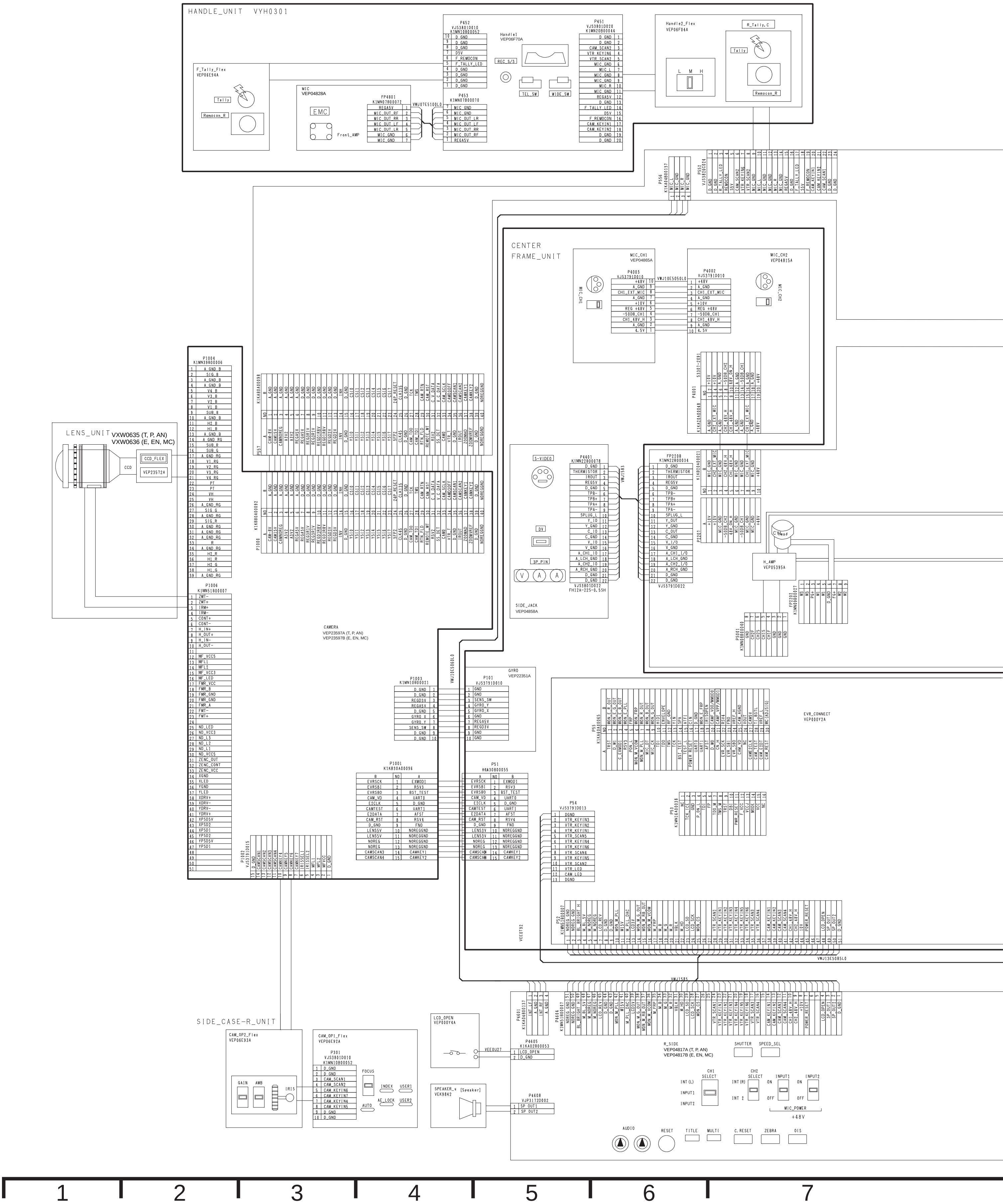
F_TALLY (1/1)..SCM045

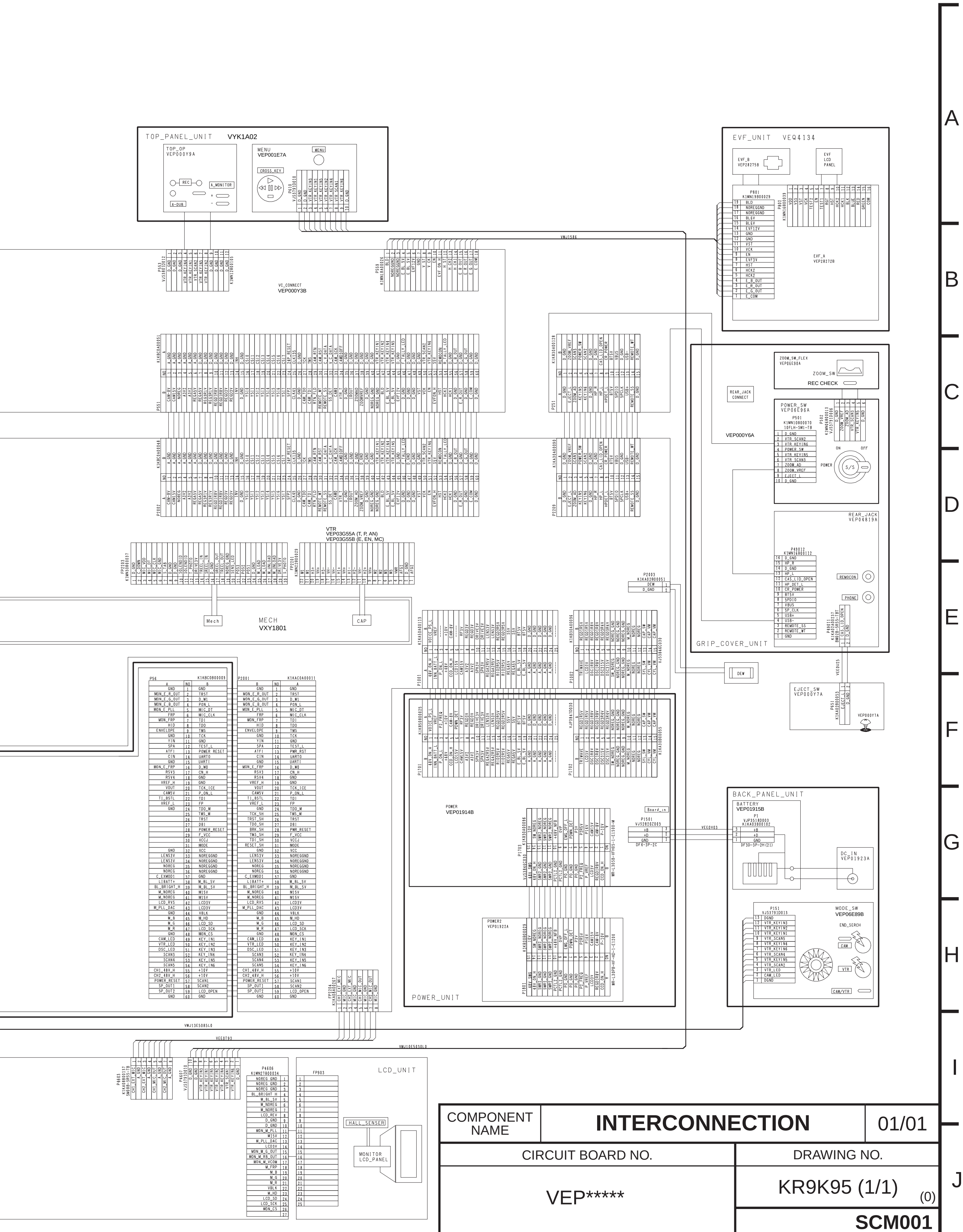
ZOOM SW

ZOOM SW (1/1) SCM045

DC_IN

DC_IN (1/1)...SCM045

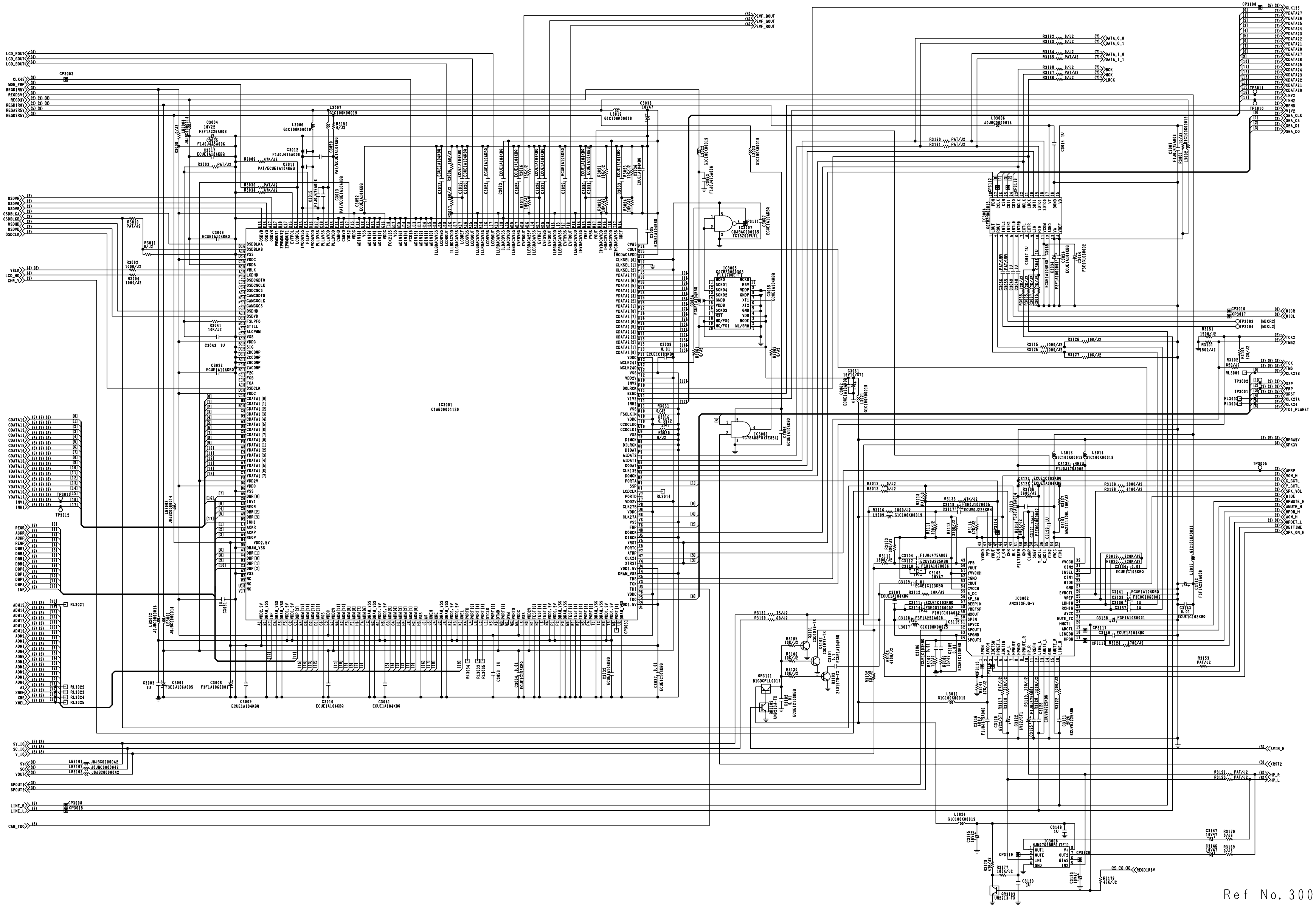

HANDLE_UNIT VYH0301
F_Tally_Flex
VEP06E94A
Tally
Remocon_R
MIC
VEP04828A
EMC
Front_AMP
FP4801
K1MN07B00072
P452
VJS38010010
K1MN10B00052
P453
K1MN07B00010
Handle1
VEP06F70A
REC_S/S
TEL_SW
WIDE_SW
P451
VJS38010020
K1MN20B00044
Handle2_Flex
VEP06F04A
R_Tally,C
Tally
Remocon_R
L M H
P556
P551
CENTER
FRAME_UNIT
MIC_CH1
VEP04865A
P4003
VJS3791D010
P4002
VJS3791D010
MIC_CH2
VEP04815A
P4001
LENS_UNIT
VXW0635 (T, P, AN)
VXW0636 (E, EN, MC)
CCD
CCD_FLEX
VEP23572A
P1004
K1MN39B00006
P1006
K1MN51B00007
P557
P1000
CAMERA
VEP23597A (T, P, AN)
VEP23597B (E, EN, MC)
S-VIDEO
DV
SP_PIN
SIDE_JACK
VEP04858A
P4401
K1MN22B00078
FP2208
K1MN22B00034
H_AMP
VEP05395A
P1003
K1MN10B00021
P101
VJS3791D010
GYRO
VEP22351A
P1001
K1KB90A00096
P51
K1KA30B00055
P1002
P55
P53
P54
VJS3791D013
EVR_CONNECT
VEP00Y2A
P52
SIDE_CASE-R_UNIT
CAM_OP2_Flex
VEP06E93A
GAIN
AWB
IRIS
CAM_OP1_Flex
VEP06E92A
P301
VJS3801D010
K1MN10B00052
FOCUS
INDEX
USER1
AF_LOCK
USER2
AUTO
LCD_OPEN
VEP00Y4A
SPEAKER_u [Speaker]
VEK9842
P4605
K1KA02B00053
P4608
VJP3112D002
P4601
P4604
R_SIDE
VEP04817A (T, P, AN)
VEP04817B (E, EN, MC)
SHUTTER
SPEED_SEL
CH1 SELECT
CH2 SELECT
INT(L)
INT(R)
INPUT1
INPUT2
ON
OFF
MIC_POWER
+48V
AUDIO
RESET
TITLE
MULTI
C.RESET
ZEBRA
OIS
1
2
3
4
5
6
7


A
B
C
D
E
F
G
H
I
J
TOP_PANEL_UNIT VYK1A02
TOP_OP VEP000Y9A
REC
A_MONITOR
A-DUB
MENU VEP001E7A
CROSS_KEY
EVF_UNIT VEQ4134
EVF_B VEP28275B
EVF LCD PANEL
EVF_A VEP28272B
VC_CONNECT VEP000Y3B
ZOOM_SW_FLEX VEP0E6E90A
ZOOM_SW
REC CHECK
REAR_JACK CONNECT
VEP000Y6A
POWER_SW VEP06E96A
POWER
ON
OFF
REAR_JACK VEP04819A
REMOCON
PHONE
GRIP_COVER_UNIT
DEW
EJECT_SW VEP000Y7A
VTR VEP03G55A (T, P, AN) VEP03G55B (E, EN, MC)
Mech
MECH VXY1801
CAP
POWER VEP01914B
POWER2 VEP01922A
POWER_UNIT
BACK_PANEL_UNIT
BATTERY VEP01915B
DC_IN VEP01923A
MODE_SW VEP06E89B
CAM
VTR
CAM/VTR
LCD_UNIT
HALL_SENSER
MONITOR LCD_PANEL

COMPONENT NAME	INTERCONNECTION	01/01

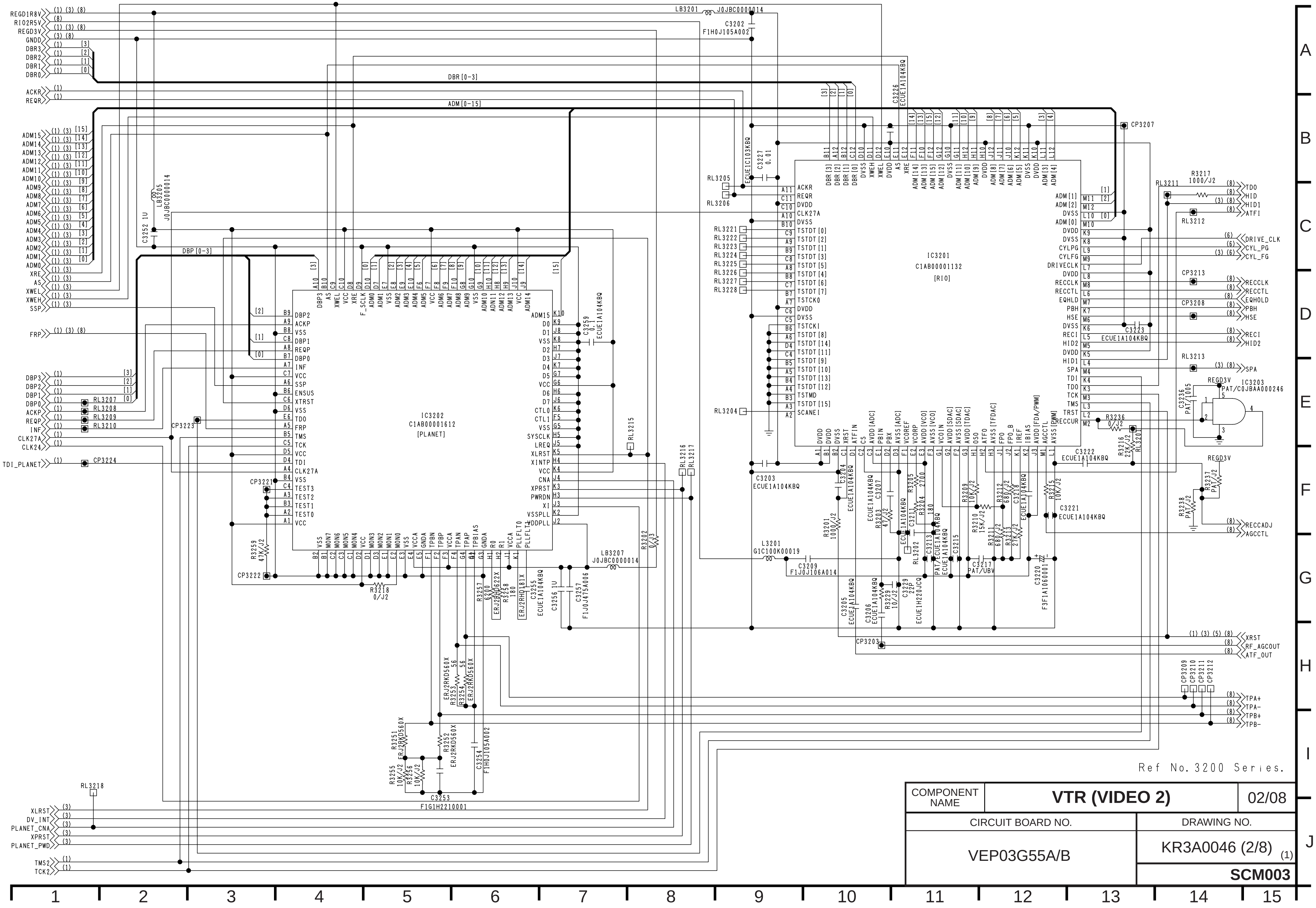
CIRCUIT BOARD NO.	DRAWING NO.
VEP*****	KR9K95 (1/1) (0)
	SCM001

8 9 10 11 12 13 14 15



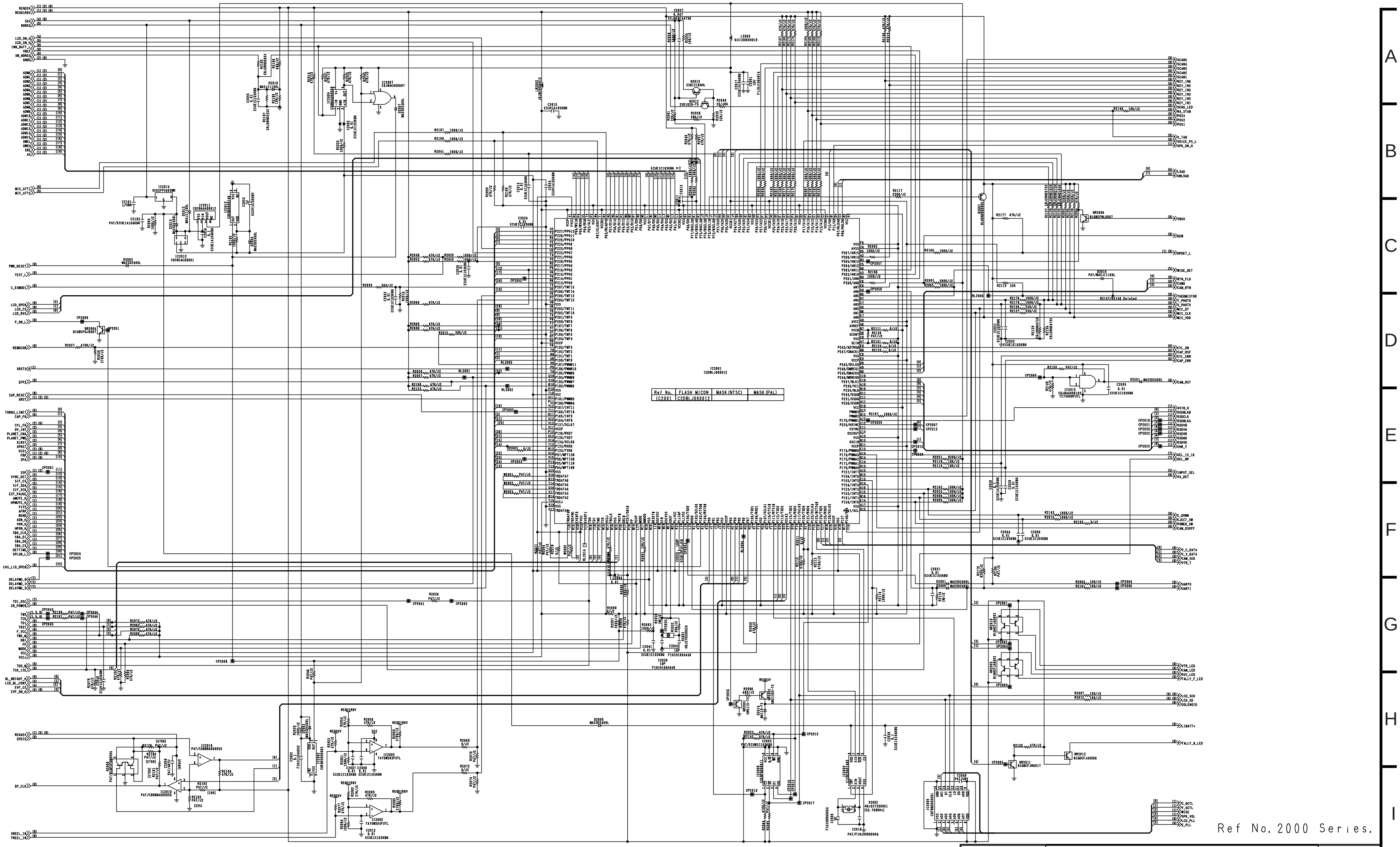
Ref No. 3000-3100 Series.

COMPONENT NAME	**VTR (VIDEO 1)**	01/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G55A/B	KR3A0046 (1/8) (1)	
	SCM002	


REGD1R8V
RIO2R5V
REGD3V
GNDD
DBR3
DBR2
DBR1
DBR0
ACKR
REQR
ADM15
ADM14
ADM13
ADM12
ADM11
ADM10
ADM9
ADM8
ADM7
ADM6
ADM5
ADM4
ADM3
ADM2
ADM1
ADM0
XRE
AS
XWEL
XWEH
SSP
FRP
DBP3
DBP2
DBP1
DBP0
ACKP
REQP
INF
CLK27A
CLK24
TDI_PLANET
DBR[0-3]
ADM[0-15]
DBP[0-3]
LB3201 J0JBC0000014
C3202 F1H0J105A002
LB3205 J0JBC0000014
C3252 1U
IC3202
C1AB00001612
[PLANET]
IC3201
C1AB00001132
[RIO]
IC3203 PAT/C0JBAA000246
C3259 0.1 ECUE1A104KBQ
C3227 0.01 ECUE1C103KBQ
C3226 ECUE1A104KBQ
LB3207 J0JBC0000014
L3201 G1C100K00019
C3209 F1J0J106A014
C3203 ECUE1A104KBQ
C3222 ECUE1A104KBQ
C3221 ECUE1A104KBQ
C3223 ECUE1A104KBQ
C3220 F3F1A106001
C3217 PAT/UBV
C3229 22P ECUE1H220JCQ
C3253 F1G1H2210001
C3254 F1H0J105A002
C3256 1U
C3257 F1J0J475A006
C3255 ECUE1A104KBQ
R3218 0/J2
R3259 47K/J2
R3217 1000/J2
R3236 0/J2
R3216 22K/J2
R3237 PAT/J2
R3238 PAT/J2
R3201 1000/J2
R3251 ERJ2RKD560X
R3252 ERJ2RKD560X
R3253 ERJ2RKD560X 56
R3254 ERJ2RKD560X 56
R3255 10K/J2
R3256 10K/J2
R3257 R200 ERJ2RKD622X
R3258 180 ERJ2RHD181X
R3202 0/J2
RL3201
RL3202
RL3204
RL3205
RL3206
RL3207
RL3208
RL3209
RL3210
RL3211
RL3212
RL3213
RL3215
RL3216
RL3217
RL3218
RL3221
RL3222
RL3223
RL3224
RL3225
RL3226
RL3227
RL3228
CP3203
CP3207
CP3208
CP3209
CP3210
CP3211
CP3212
CP3213
CP3221
CP3222
CP3223
CP3224
TDO
HID
HID1
ATFI
DRIVE_CLK
CYL_PG
CYL_FG
RECCLK
RECCTL
EQHOLD
PBH
HSE
RECI
HID2
SPA
RECCADJ
AGCCTL
XRST
RF_AGCOUT
ATF_OUT
TPA+
TPA-
TPB+
TPB-
XLRST
DV_INT
PLANET_CNA
XPRST
PLANET_PWD
TMS2
TCK2
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Ref No. 3200 Series.

COMPONENT NAME	VTR (VIDEO 2)	02/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G55A/B	KR3A0046 (2/8) (1)	
	SCM003	



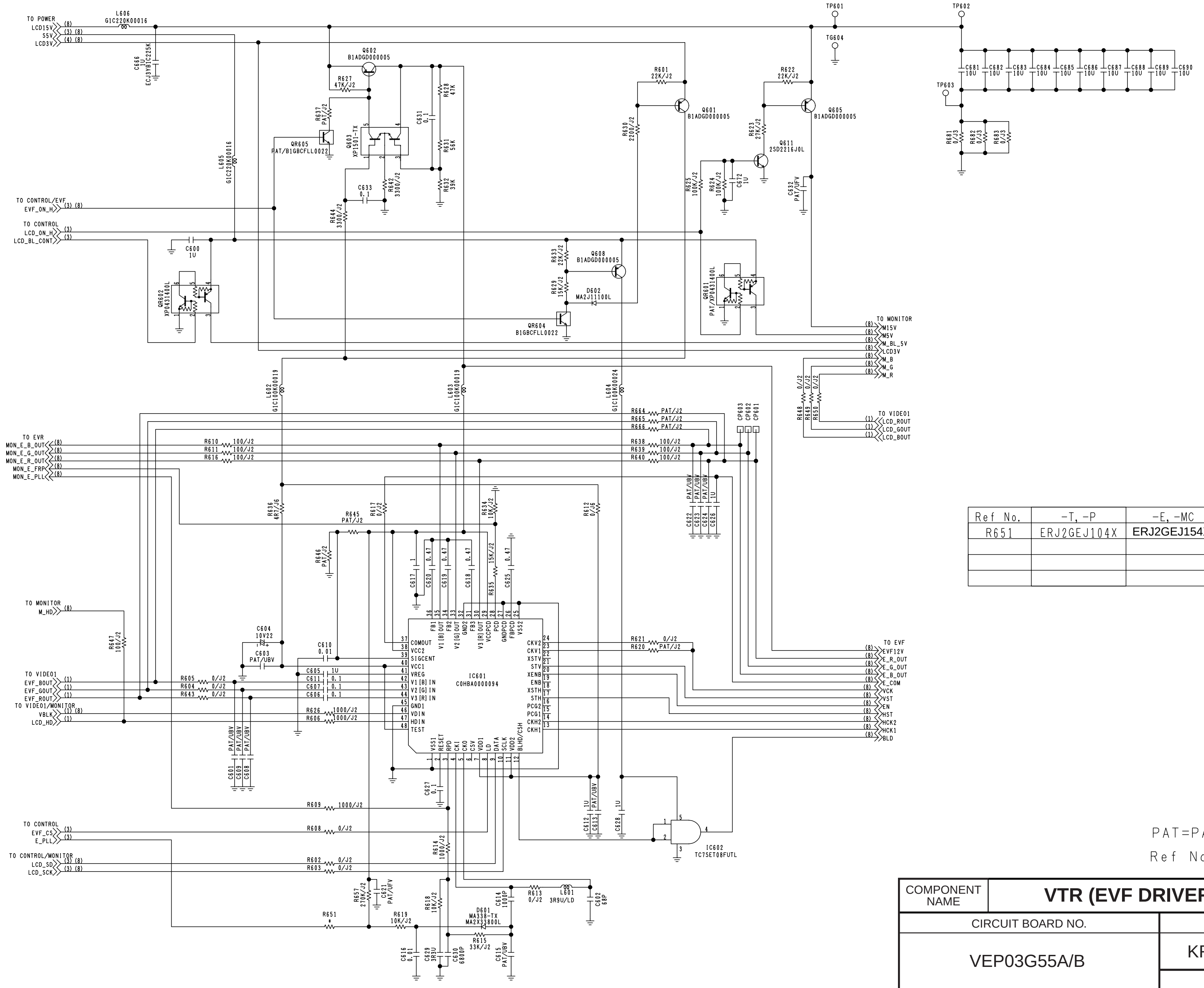
Ref No.	FLASH MICON	MASK (NTSC)	MASK (PAL)
IC2001	C2DBLJ000012		

Ref No. 2000 Series.

Ref No.	FLASH MICON	MASK MICON
R2018	0/J2	PAT/J2
R2071	PAT/J2	0/J2

COMPONENT NAME	VTR (CONTROL)	03/08

CIRCUIT BOARD NO.	DRAWING NO.
VEP03G55A/B	KR3A0046 (3/8) (1)
	SCM004

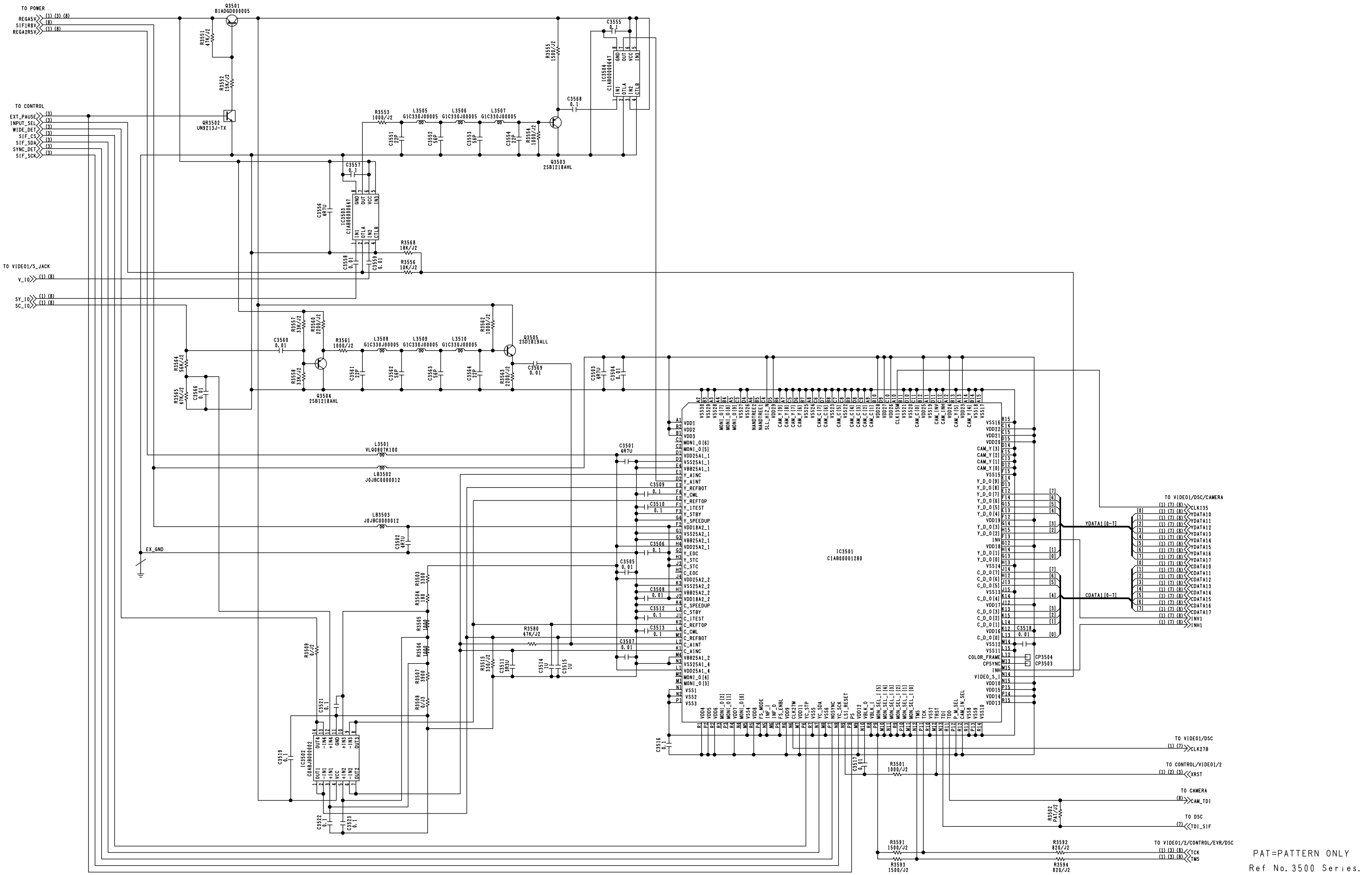

TO POWER
LCD15V
S5V
LCD3V
L606
G1C220K00016
C666
ECJ3YB1C225K
Q602
B1ADGD000005
R627
47K/J2
R637
PAT/J2
QR605
PAT/B1GBCFLL0022
Q603
XP1501-TX
C631
0.1
R628
47K
R631
56K
R632
39K
C633
0.1
R642
3300/J2
R644
3300/J2
L605
G1C220K00016
TO CONTROL/EVF
EVF_ON_H
TO CONTROL
LCD_ON_H
LCD_BL_CONT
C600
1U
QR602
XP0431400L
R601
22K/J2
Q601
B1ADGD000005
R630
2200/J2
R633
22K/J2
Q608
B1ADGD000005
R629
15K/J2
D602
MA2J11100L
QR604
B1GBCFLL0022
TP601
TG604
R622
22K/J2
Q605
B1ADGD000005
R623
27K/J2
Q611
2SD2216J0L
R625
100K/J2
R624
100K/J2
C672
1U
C632
PAT/UFV
QR601
PAT/XP0431400L
TP602
TP603
C681 10U
C682 10U
C683 10U
C684 10U
C685 10U
C686 10U
C687 10U
C688 10U
C689 10U
C690 10U
R681 0/J3
R682 0/J3
R683 0/J3
TO MONITOR
M15V
M5V
M_BL_5V
LCD3V
M_B
M_G
M_R
R648 0/J2
R649 0/J2
R650 0/J2
TO VIDEO1
LCD_ROUT
LCD_GOUT
LCD_BOUT
L602
G1C100K00019
L603
G1C100K00019
L604
G1C100K00024
R664 PAT/J2
R665 PAT/J2
R666 PAT/J2
CP603
CP602
CP601
TO EVR
MON_E_B_OUT
MON_E_G_OUT
MON_E_R_OUT
MON_E_FRP
MON_E_PLL
R610 100/J2
R611 100/J2
R616 100/J2
R638 100/J2
R639 100/J2
R640 100/J2
C622 C623 C624 C626
R636
4R7/J6
R645
PAT/J2
R617
0/J2
R634
10K/J2
R612
0/J6
R646
PAT/J2
C617 1
C620 0.47
C619 0.47
C618 0.47
R635 15K/J2
C625 0.47
TO MONITOR
M_HD
R647
100/J2
C604
10V22
C603
PAT/UBV
C610
0.01
C605 1U
C611 0.1
C607 0.1
C606 0.1
IC601
C0HBA0000094
COMOUT
VCC2
SIGCENT
VCC1
VREG
V1[B]IN
V2[G]IN
V3[R]IN
GND1
VDIN
HDIN
TEST
CKV2
CKV1
XSTV
STV
XENB
ENB
XSTH
STH
PCG2
PCG1
CKH2
CKH1
TO VIDEO1
EVF_BOUT
EVF_GOUT
EVF_ROUT
TO VIDEO1/MONITOR
VBLK
LCD_HD
R605 0/J2
R604 0/J2
R643 0/J2
R626 1000/J2
R606 1000/J2
C601 C609 C608
R621 0/J2
R620 PAT/J2
TO EVF
EVF12V
E_R_OUT
E_G_OUT
E_B_OUT
E_COM
VCK
VST
EN
HST
HCK2
HCK1
BLD
C627
0.1
R609 1000/J2
C612 1U
C613 PAT/UBV
C628 1U
IC602
TC7SET08FUTL
TO CONTROL
EVF_CS
E_PLL
R608 0/J2
TO CONTROL/MONITOR
LCD_SD
LCD_SCK
R602 0/J2
R603 0/J2
R614
1000/J2
R657
270K/J2
C621
PAT/UFV
R651
R619
10K/J2
R618
10K/J2
D601
MA338-TX
MA2X33800L
R615
33K/J2
C614
100P
R613
0/J2
L601
3R9U/LD
C602
68P
C616 0.01
C629 3R9U
C630 6800P
C615 PAT/UBV

Ref No.	-T, -P	-E, -MC
R651	ERJ2GEJ104X	ERJ2GEJ154X

PAT=PATTERN ONLY

Ref No.600 Series.

COMPONENT NAME	VTR (EVF DRIVER)	04/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G55A/B	KR3A0046 (4/8) (1)	
	SCM005	

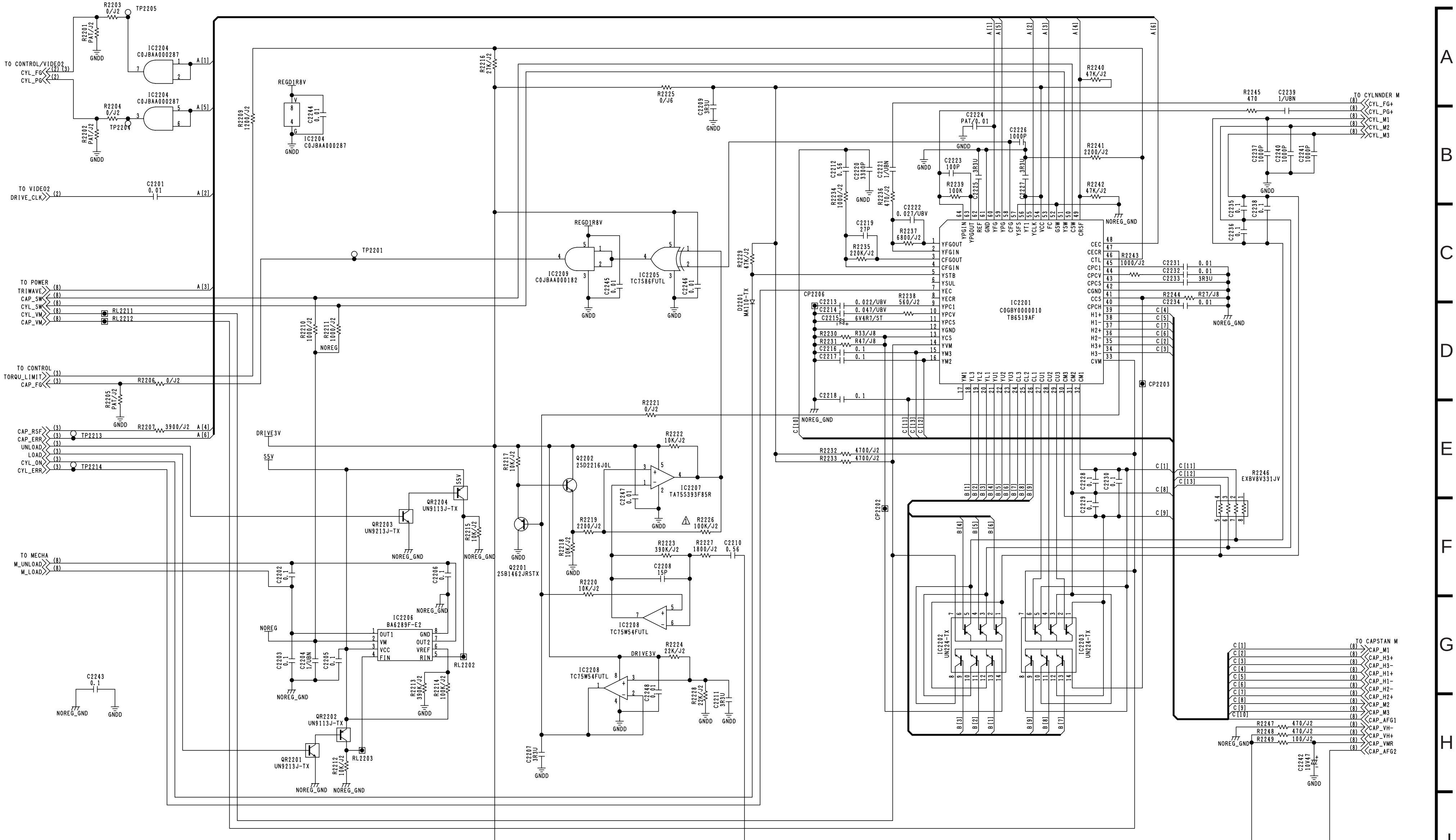

TO POWER
REGA5V
SIF1R8V
REGA2R5V
Q3501
B1ADGD000005
R3551
R3552
TO CONTROL
EXT_PAUSE
INPUT_SEL
WIDE_DET
SIF_CS
SIF_SDA
SYNC_DET
SIF_SCK
QR3502
UN9213J-TX
R3553
1000/J2
L3505
G1C330J00005
L3506
G1C330J00005
L3507
G1C330J00005
Q3503
2SB1218AHL
R3555
1500/J2
C3555
0.1
IC3504
C1AB00000647
C3568
0.1
C3557
0.1
C3556
4R7U
IC3503
C1AB00000647
R3568
18K/J2
R3556
10K/J2
TO VIDEO1/S_JACK
V_IO
SY_IO
SC_IO
R3561
1000/J2
L3508
G1C330J00005
L3509
G1C330J00005
L3510
G1C330J00005
Q3505
2SD1819ALL
Q3504
2SB1218AHL
C3560
0.01
C3569
0.01
L3501
VLQ0807K100
LB3502
J0JBC0000012
LB3503
J0JBC0000012
EX_GND
C3501
4R7U
C3502
4R7U
R3580
47K/J2
IC3502
C0ABBB000002
IC3501
C1AB00001280
TO VIDEO1/DSC/CAMERA
YDATA1[0-7]
CDATA1[0-7]
CLK135
YDATA10
YDATA11
YDATA12
YDATA13
YDATA14
YDATA15
YDATA16
YDATA17
CDATA10
CDATA11
CDATA12
CDATA13
CDATA14
CDATA15
CDATA16
CDATA17
INV1
INH1
CP3504
CP3503
TO VIDEO1/DSC
CLK27B
TO CONTROL/VIDEO1/2
XRST
TO CAMERA
CAM_TDI
TO DSC
TDI_SIF
R3502
PAT/J2
R3581
1000/J2
TO VIDEO1/2/CONTROL/EVR/DSC
TCK
TMS
R3591
1500/J2
R3592
820/J2
R3593
1500/J2
R3594
820/J2

PAT=PATTERN ONLY

Ref No. 3500 Series.

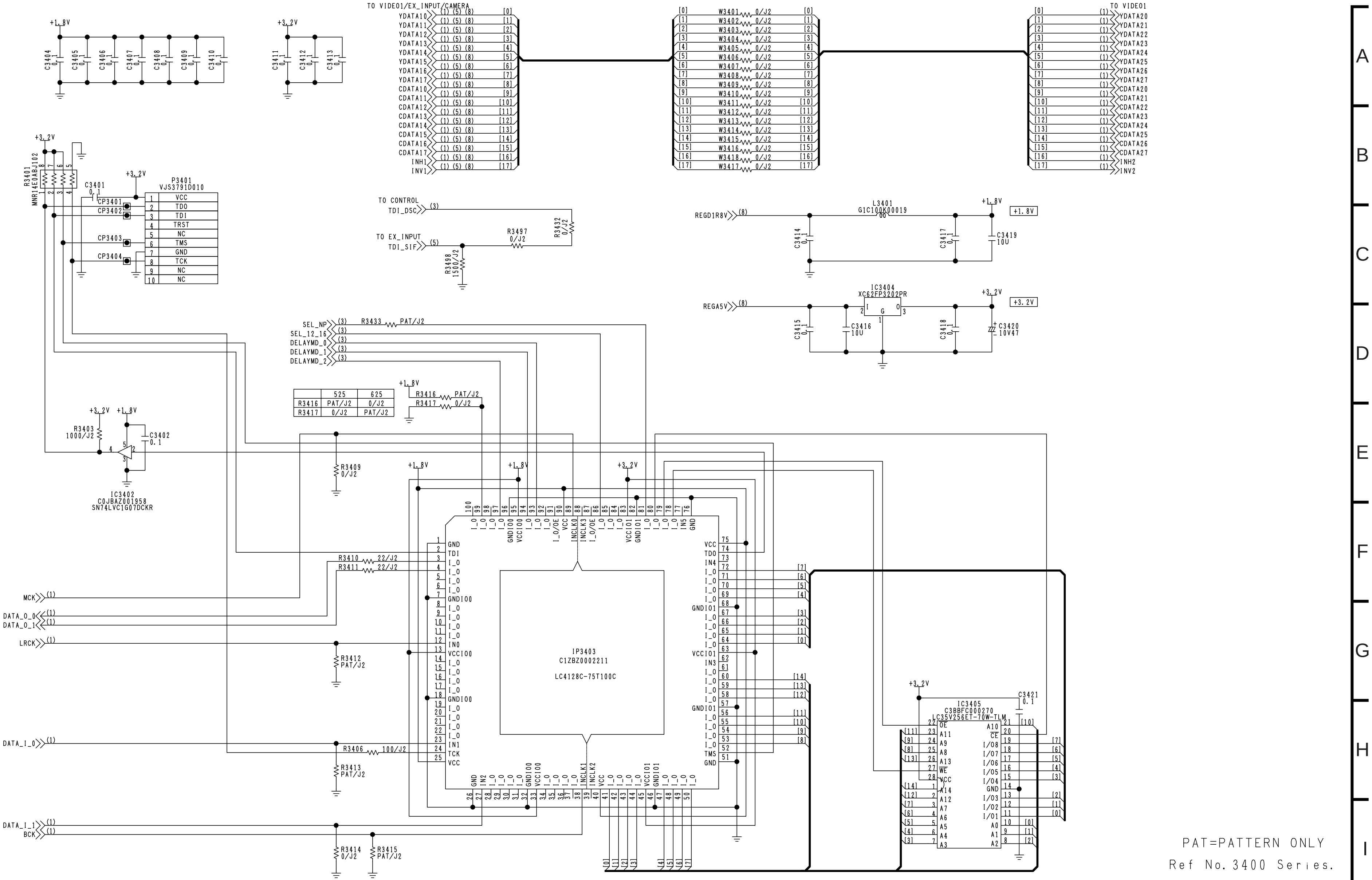
COMPONENT NAME	VTR (EX_INPUT)	05/08

CIRCUIT BOARD NO.	DRAWING NO.
VEP03G55A/B	KR3A0046 (5/8) (1)
	SCM006


TO CONTROL/VIDEO2
CYL_FG
CYL_PG
TO VIDEO2
DRIVE_CLK
TO POWER
TRIWAVE
CAP_SW
CYL_SW
CYL_VM
CAP_VM
TO CONTROL
TORQU_LIMIT
CAP_FG
CAP_RSF
CAP_ERR
UNLOAD
LOAD
CYL_ON
CYL_ERR
TO MECHA
M_UNLOAD
M_LOAD
IC2204 C0JBAA000287
IC2209 C0JBAA000182
IC2205 TC7S86FUTL
IC2201 C0GBY0000010 TB6519AF
IC2206 BA6289F-E2
IC2207 TA75S393F85R
IC2208 TC75W54FUTL
IC2202 UN224-TX
IC2203 UN224-TX
Q2201 2SB1462JRSTX
Q2202 2SD2216J0L
QR2201 UN9213J-TX
QR2202 UN9113J-TX
QR2203 UN9213J-TX
QR2204 UN9113J-TX
D2201 MA110-TX
REGD1R8V
DRIVE3V
S5V
NOREG
GNDD
NOREG_GND
TO CYLNNDER M
CYL_FG+
CYL_PG+
CYL_M1
CYL_M2
CYL_M3
TO CAPSTAN M
CAP_M1
CAP_H3+
CAP_H3-
CAP_H1+
CAP_H1-
CAP_H2-
CAP_H2+
CAP_M2
CAP_M3
CAP_AFG1
CAP_VH-
CAP_VH+
CAP_VMR
CAP_AFG2
R2246 EXBV8V331JV

PAT=PATTERN ONLY
Ref No. 2200 Series.

COMPONENT NAME	VTR (DRIVE)	06/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G55A/B	KR3A0046 (6/8) (1)	
	SCM007	

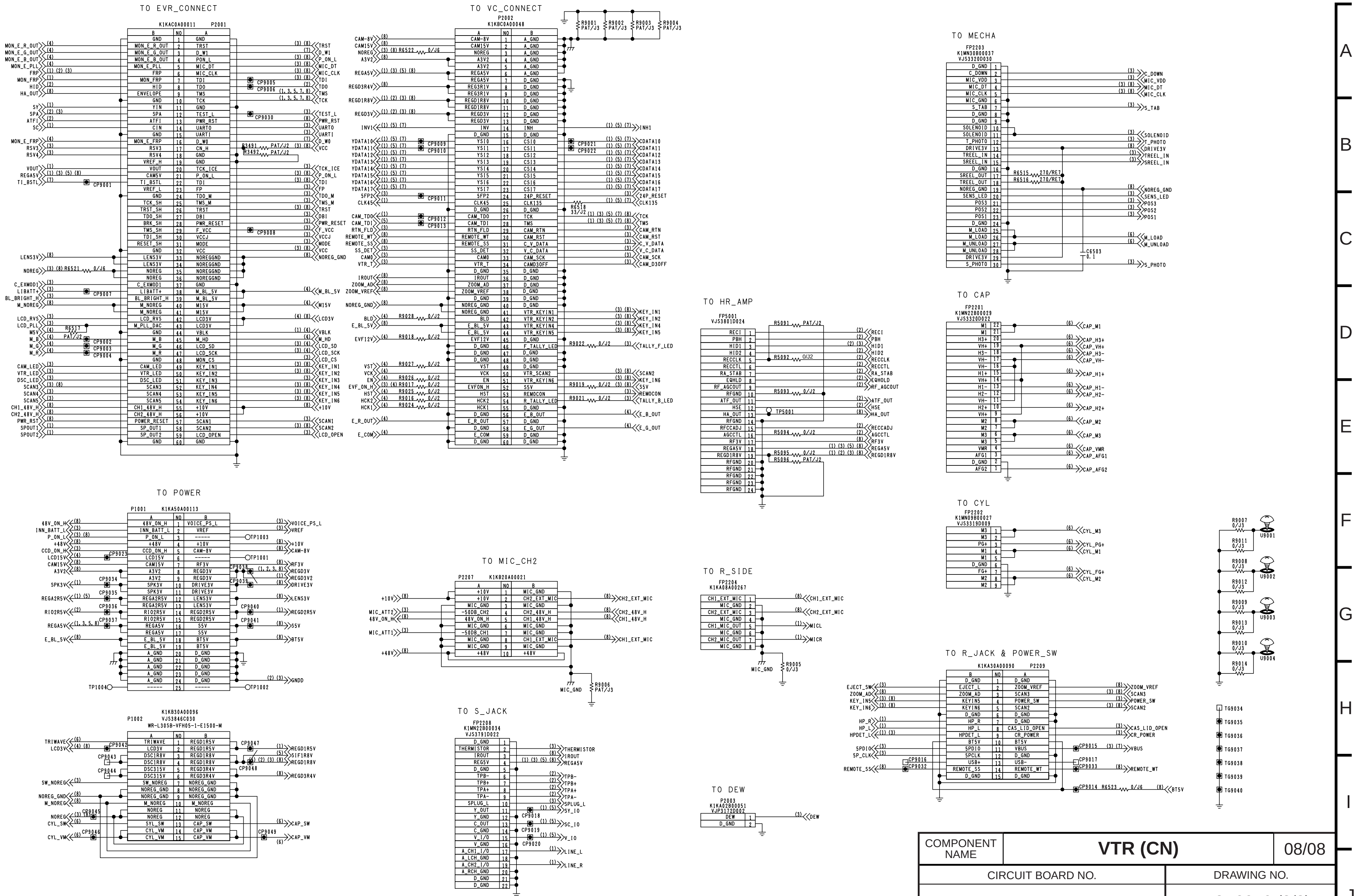

TO VIDEO1/EX_INPUT/CAMERA
YDATA10
YDATA11
YDATA12
YDATA13
YDATA14
YDATA15
YDATA16
YDATA17
CDATA10
CDATA11
CDATA12
CDATA13
CDATA14
CDATA15
CDATA16
CDATA17
INH1
INV1
W3401 … W3417 0/J2
TO VIDEO1
YDATA20
YDATA21
YDATA22
YDATA23
YDATA24
YDATA25
YDATA26
YDATA27
CDATA20
CDATA21
CDATA22
CDATA23
CDATA24
CDATA25
CDATA26
CDATA27
INH2
INV2
+1.8V
C3404
C3405
C3406
C3407
C3408
C3409
C3410
+3.2V
C3411
C3412
C3413
R3401
MNR14E0ABJ102
C3401
0.1
CP3401
CP3402
CP3403
CP3404
P3401
VJS3791D010
VCC
TDO
TDI
TRST
NC
TMS
GND
TCK
TO CONTROL
TDI_DSC
TO EX_INPUT
TDI_SIF
R3497
0/J2
R3432
0/J2
R3498
1500/J2
REGD1R8V
L3401
G1C100K00019
C3414
C3417
C3419
10U
REGA5V
IC3404
XC62FP3202PR
C3415
C3416
10U
C3418
C3420
10V47
SEL_NP
SEL_12_16
DELAYMD_0
DELAYMD_1
DELAYMD_2
R3433 PAT/J2
R3416 PAT/J2
R3417 0/J2
R3403
1000/J2
C3402
0.1
IC3402
C0JBAZ001958
SN74LVC1G07DCKR
R3409
0/J2
MCK
DATA_0_0
DATA_0_1
LRCK
R3410 22/J2
R3411 22/J2
R3412
PAT/J2
DATA_I_0
R3406 100/J2
R3413
PAT/J2
DATA_I_1
BCK
R3414
0/J2
R3415
PAT/J2
IP3403
C1ZBZ0002211
LC4128C-75T100C
IC3405
C3BBFC000270
LC35V256ET-70W-TLM
C3421
0.1

	525	625
R3416	PAT/J2	0/J2
R3417	0/J2	PAT/J2

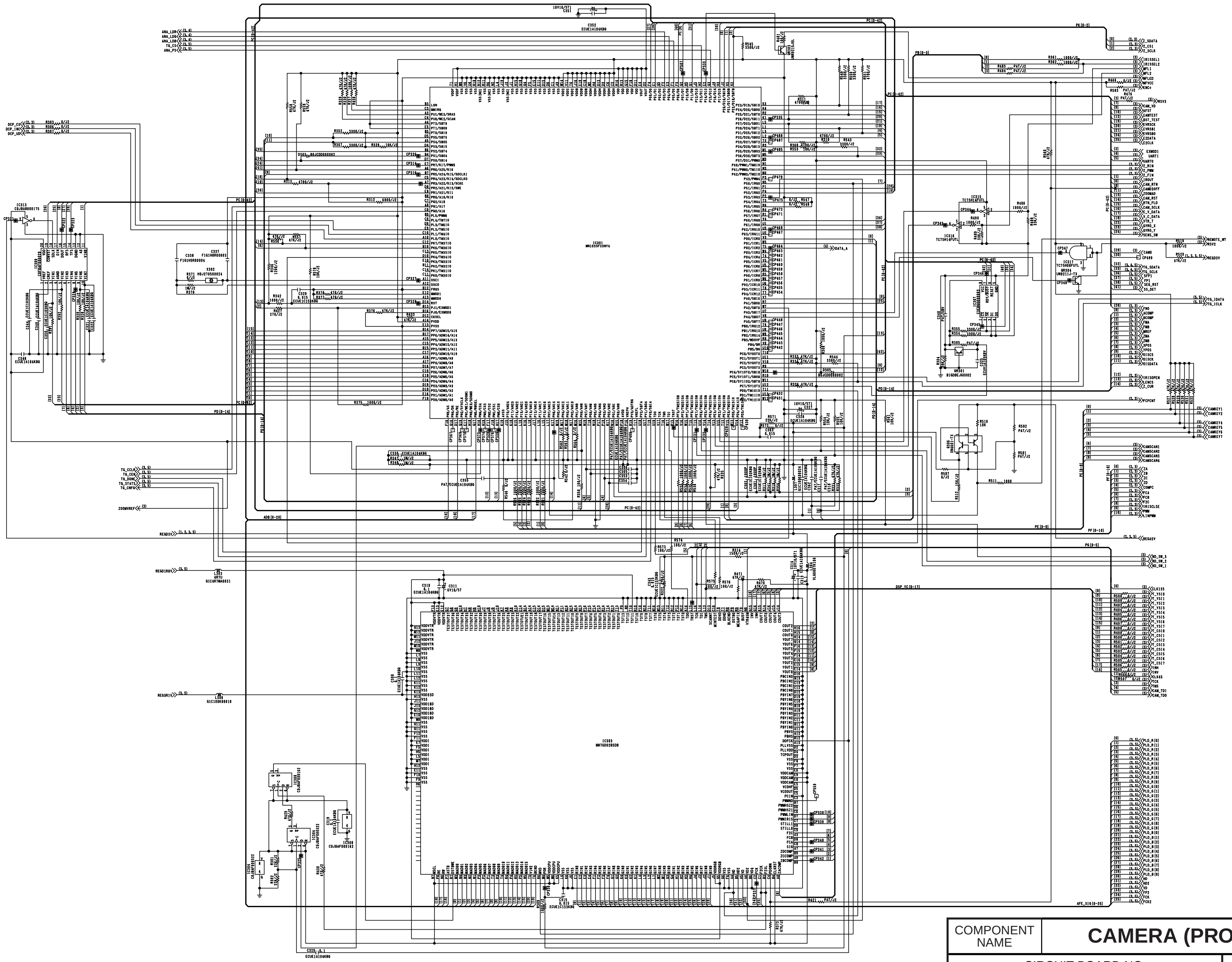
PAT=PATTERN ONLY

Ref No. 3400 Series.

COMPONENT NAME	VTR (AUDIO DELAY)	07/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G55A/B	KR3A0046 (7/8) (1)	
	SCM008	


TO EVR_CONNECT
P2001
K1KAC0A00011
TO VC_CONNECT
P2002
K1KBC0A00048
TO MECHA
FP2203
TO HR_AMP
FP5001
TO CAP
FP2201
TO CYL
FP2202
TO POWER
P1001
K1KA50A00113
TO MIC_CH2
P2207
K1KB20A00021
TO R_SIDE
FP2204
TO R_JACK & POWER_SW
P2209
K1KA30A00090
P1002
K1KB30A00096
TO S_JACK
FP2208
TO DEW
P2003
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J

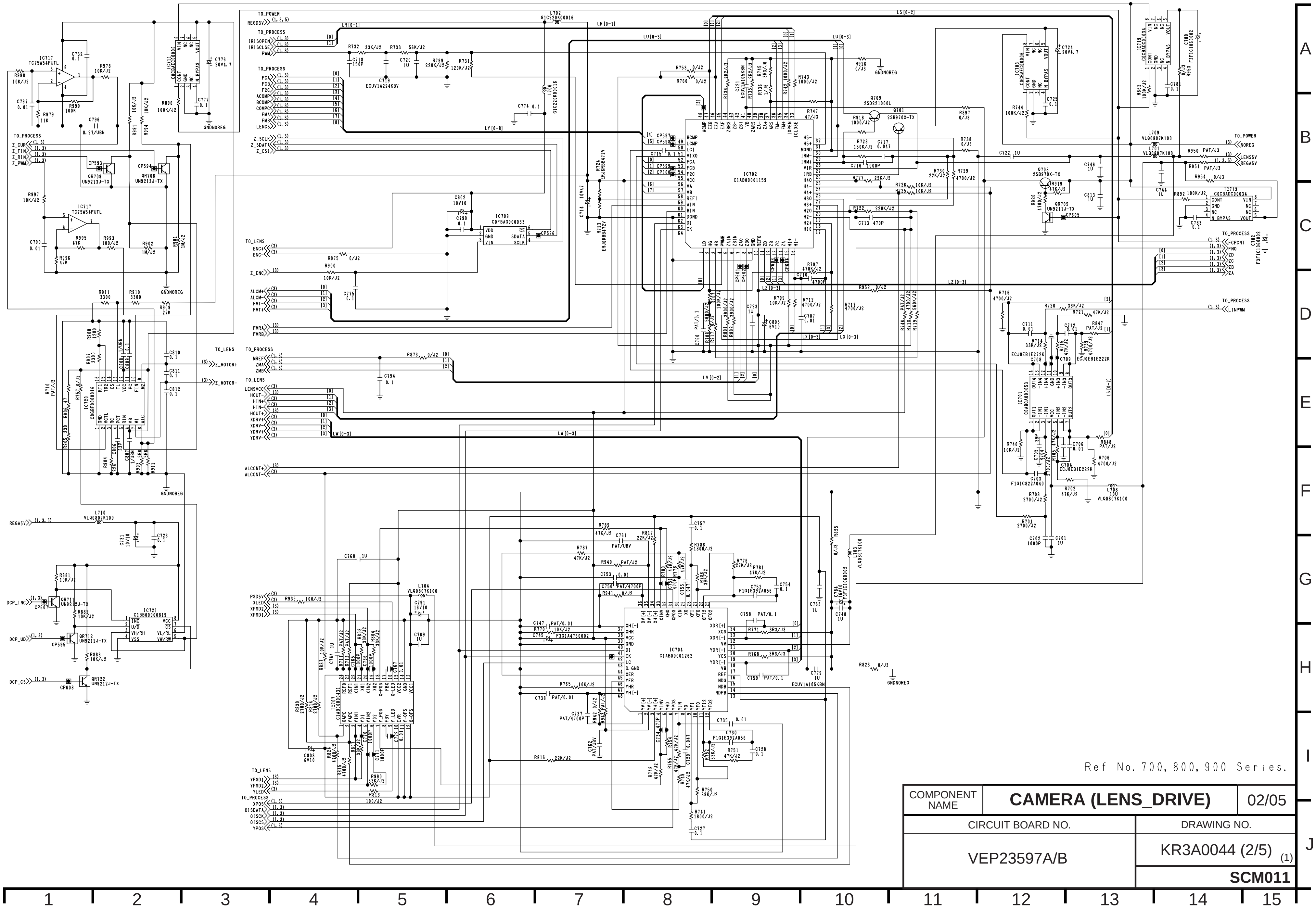
COMPONENT NAME	VTR (CN)	08/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G55A/B	KR3A0046 (8/8) (1)	
	SCM009	


IC301
MN103SF33NY4
IC303
MN7GD02B5DB

Ref No. 60000 Series.

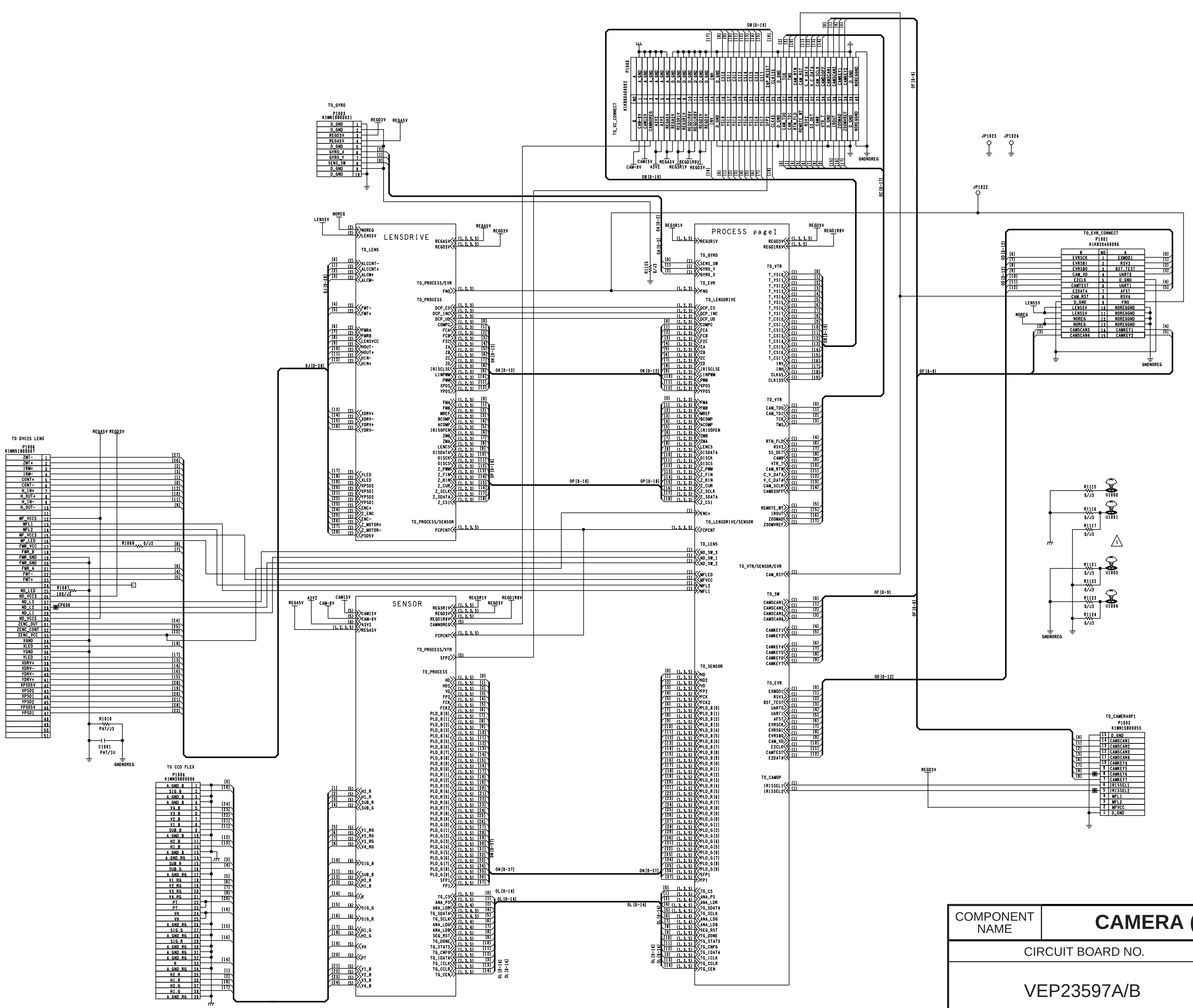
COMPONENT NAME	**CAMERA (PROCESS)**	01/05

CIRCUIT BOARD NO.	DRAWING NO.
VEP23597A/B	KR3A0044 (1/5) (1)
	SCM010


IC717 TC75W54FUTL
IC711 C0CBADC00006
IC702 C1AB00001159
IC709 C0FBAG000033
IC720 C0GBF0000016
IC721 C1BB00000819
IC704 C1AB00001262
IC713 C0CBADC00034
IC701 C0ABCA000053
TO_POWER
TO_PROCESS
TO_LENS
GNDNOREG
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

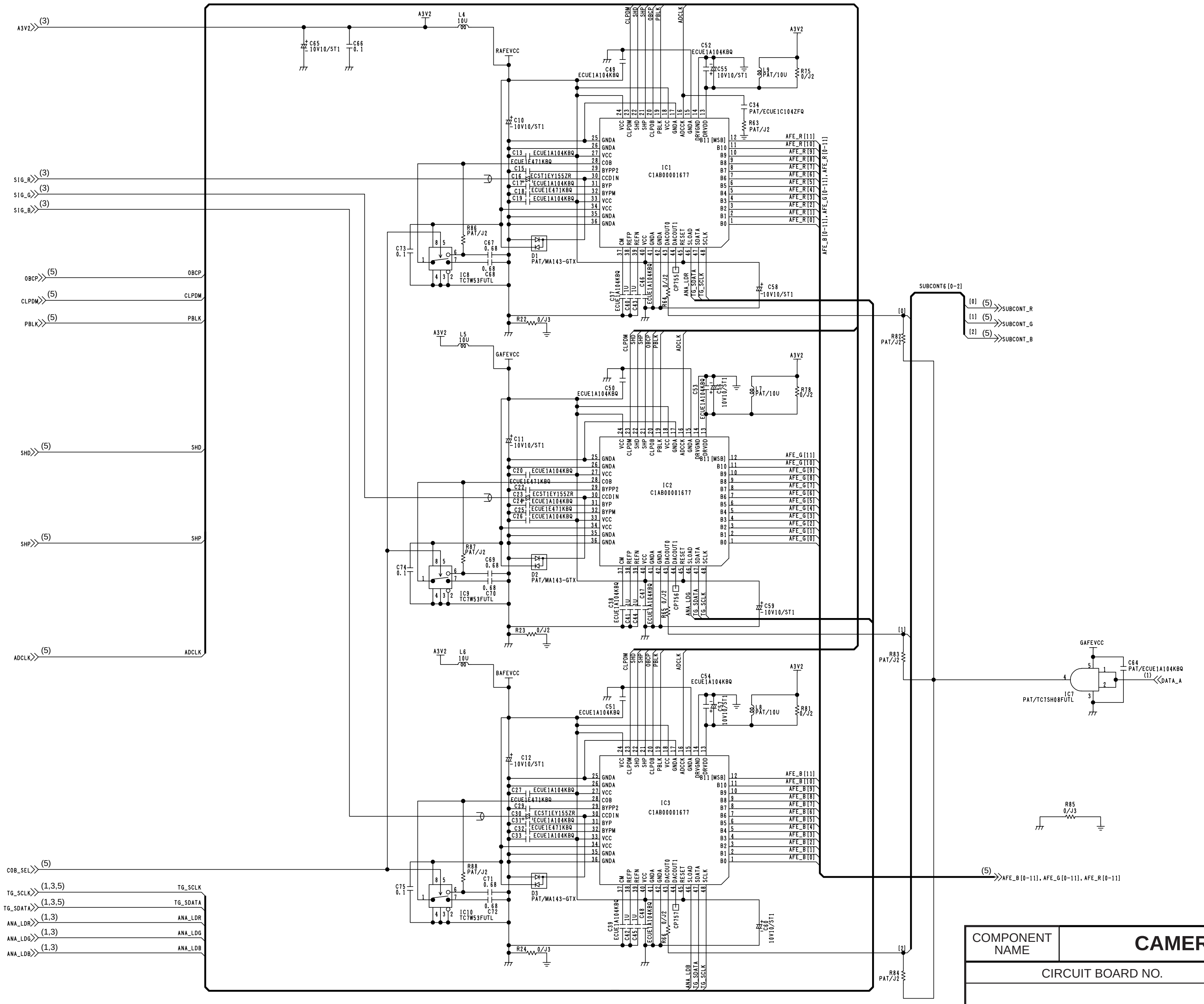
Ref No. 700, 800, 900 Series.

COMPONENT NAME	CAMERA (LENS_DRIVE)	02/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23597A/B	KR3A0044 (2/5) (1)	
	SCM011	


TO_GYRO
TO_VC_CONNECT
LENSDRIVE
PROCESS page1
SENSOR
TO DVC25 LENS
TO CCD FLEX
TO_EVR_CONNECT
TO_CAMERAOP1
JP1022
JP1023
JP1024
REGA5V
REGD3V
GNDNOREG

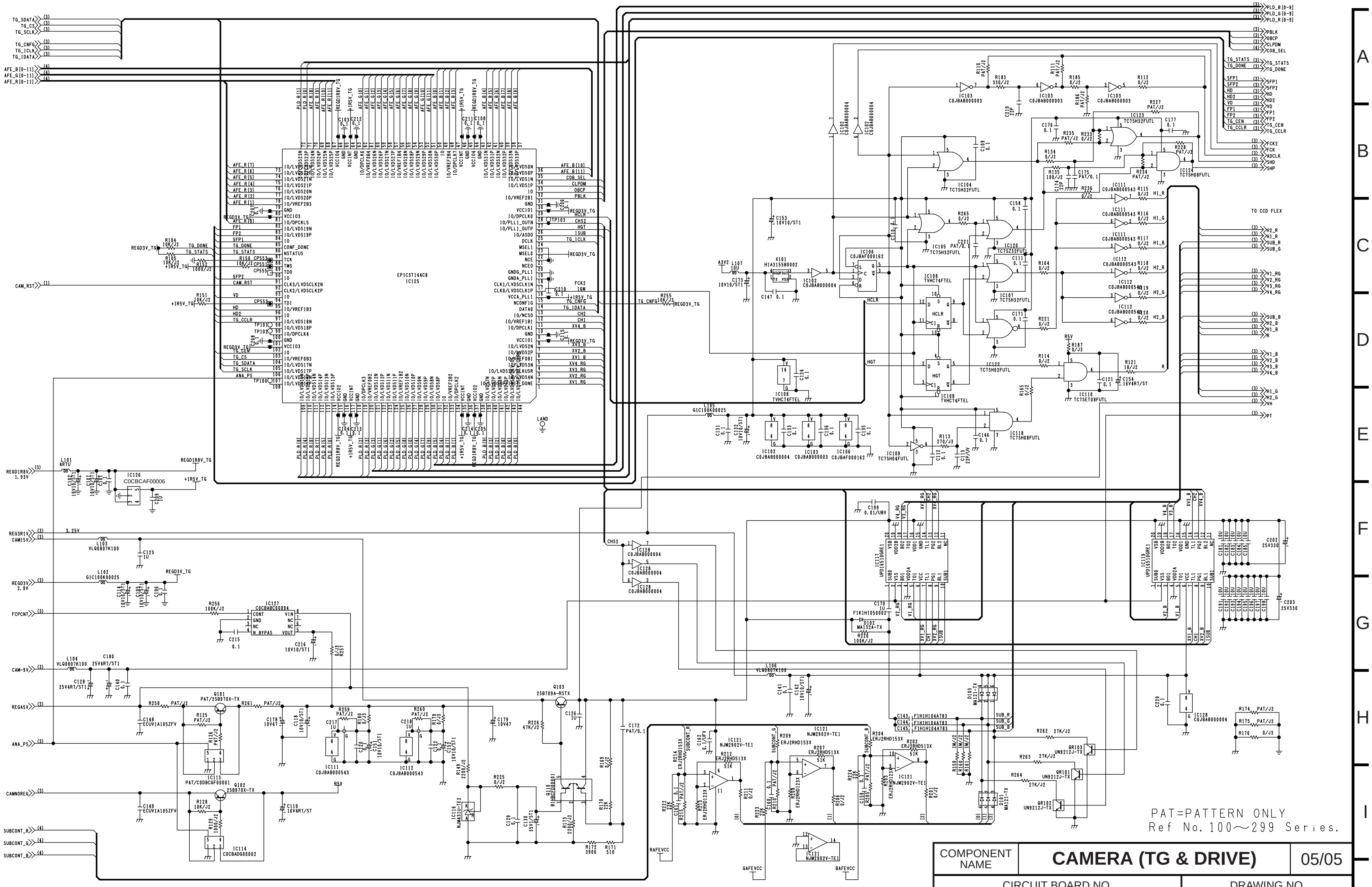
Ref No.1000 Series.

COMPONENT NAME	CAMERA (SUB_CN)	03/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23597A/B	KR3A0044 (3/5) (1)	
	SCM012	


A3V2 (3)
SIG_R (3)
SIG_G (3)
SIG_B (3)
OBCP (5)
CLPDM (5)
PBLK (5)
SHD (5)
SHP (5)
ADCLK (5)
COB_SEL (5)
TG_SCLK (1,3,5)
TG_SDATA (1,3,5)
ANA_LDR (1,3)
ANA_LDG (1,3)
ANA_LDB (1,3)
L4 10U
L5 10U
L6 10U
RAFEVCC
GAFEVCC
BAFEVCC
C65 10V10/ST1
C66 0.1
C10 10V10/ST1
C11 10V10/ST1
C12 10V10/ST1
IC1 C1AB00001677
IC2 C1AB00001677
IC3 C1AB00001677
IC8 TC7W53FUTL
IC9 TC7W53FUTL
IC10 TC7W53FUTL
D1 PAT/MA143-GTX
D2 PAT/MA143-GTX
D3 PAT/MA143-GTX
R22 0/J3
R23 0/J2
R24 0/J3
C34 PAT/ECUE1C104ZFQ
R63 PAT/J2
L9 PAT/10U
L7 PAT/10U
L8 PAT/10U
R75 0/J2
R78 0/J2
R81 0/J2
C58 10V10/ST1
C59 10V10/ST1
C60 10V10/ST1
SUBCONT6[0-2]
SUBCONT_R (5)
SUBCONT_G (5)
SUBCONT_B (5)
R82 PAT/J2
R83 PAT/J2
R84 PAT/J2
IC7 PAT/TC75H08FUTL
C64 PAT/ECUE1A104KBQ
DATA_A (1)
R85 0/J3
AFE_R[0-11]
AFE_G[0-11]
AFE_B[0-11]
AFE_B[0-11], AFE_G[0-11], AFE_R[0-11] (5)
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	CAMERA (AFE)	04/05

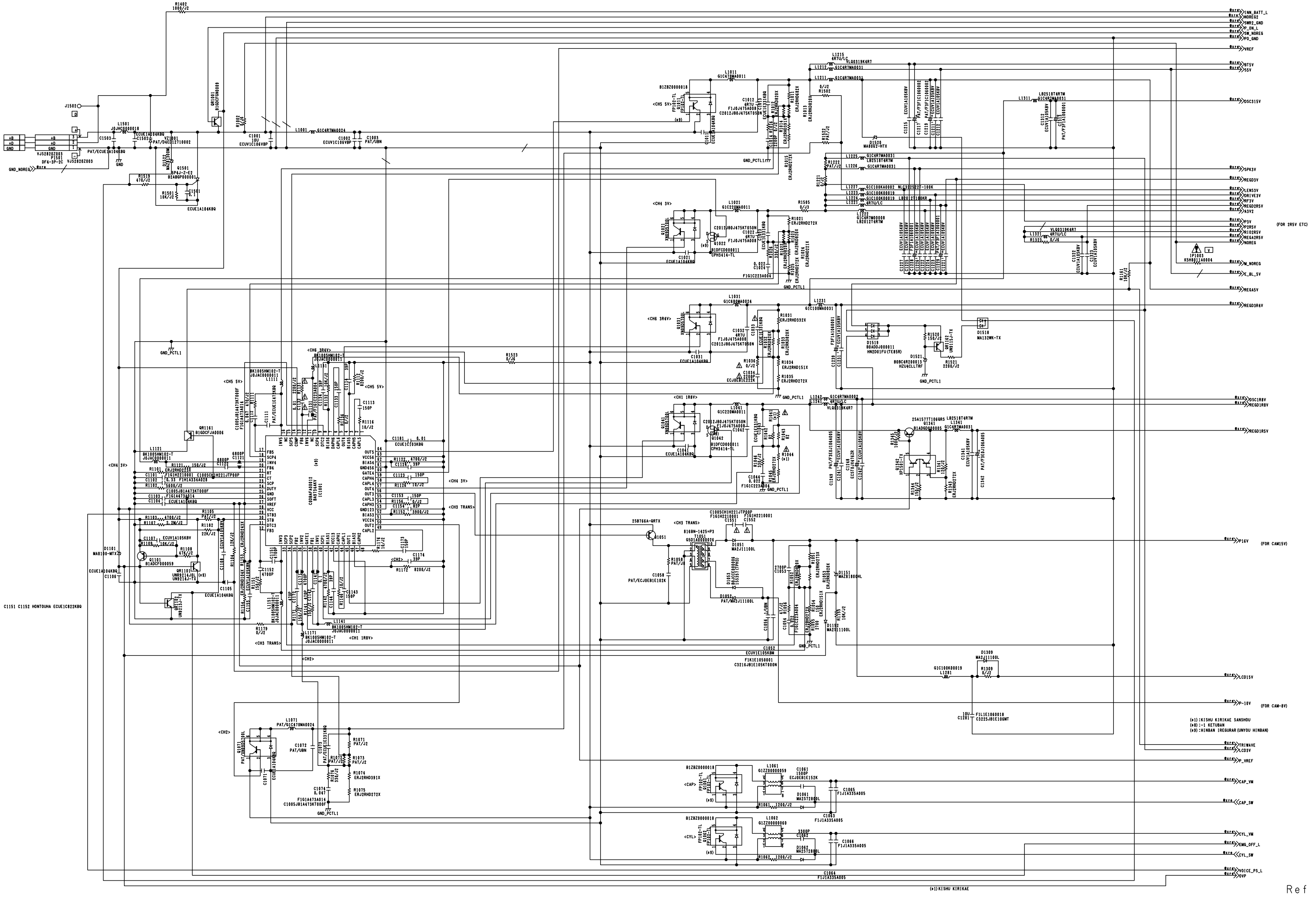
CIRCUIT BOARD NO.	DRAWING NO.
VEP23597A/B	KR3A0044 (4/5) (1)
	SCM013



TG_SDATA
TG_CS
TG_SCLK
TG_CNFG
TG_ICLK
TG_IDATA
AFE_B[0-11]
AFE_G[0-11]
AFE_R[0-11]
CAM_RST
REGD1R8V
1.93V
REG3R1V
CAM15V
REGD3V
2.9V
FCPCNT
CAM-9V
REGA5V
ANA_PS
CAMNOREG
SUBCONT_R
SUBCONT_G
SUBCONT_B
EP1C3T144C8
IC125
IC126
C0CBCAF00006
IC127
C0CBABC00094
IC113
PAT/C0DBCGF00001
IC114
C0CBADG00002
Q101
PAT/2SB970X-TX
Q102
2SB970X-TX
Q103
2SB709A-RSTX
IC111
C0JBAB000543
IC112
C0JBAB000543
IC116
NJM431U-TE2
IC121
NJM2902V-TE1
IC101
X101
H1A3155B0002
IC102
C0JBAB000004
IC103
C0JBAB000003
IC104
TC7SH32FUTL
IC105
TC7SH32FUTL
IC106
C0JBAF000162
IC107
TC7SH02FUTL
IC108
TVHC74FTEL
IC109
TC7SH04FUTL
IC110
TC7SET08FUTL
IC117
UPD16510GRE1
IC118
TC7SH08FUTL
IC119
UPD16510GRE1
IC120
TC7SZ32FUTL
IC122
TC7SH02FUTL
IC123
TC7SH32FUTL
IC124
TC7SH08FUTL
IC128
C0JBAB000004
D101
MA121-TX
D102
MA132A-TX
D103
MA121-TX
QR101
UN9212J-TX
QR102
UN9212J-TX
QR103
UN9212J-TX
PLD_B[0-9]
PLD_G[0-9]
PLD_R[0-9]
PBLK
OBCP
CLPDM
COB_SEL
TG_STATS
TG_DONE
SFP1
SFP2
HD
HD2
VD
FP1
FP2
TG_CEN
TG_CCLR
FCK2
TCK
ADCLK
SHD
SHP
TO CCD FLEX
H2_R
H1_R
SUB_R
SUB_G
V1_RG
V2_RG
V3_RG
V4_RG
SUB_B
H2_B
H1_B
R
V1_B
V2_B
V3_B
V4_B
H1_G
H2_G
VH
PT
RAFEVCC
GAFEVCC
BAFEVCC
LAND

PAT=PATTERN ONLY
Ref No.100～299 Series.

COMPONENT NAME	CAMERA (TG & DRIVE)	05/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP23597A/B		KR3A0044 (5/5) (1)
		SCM014

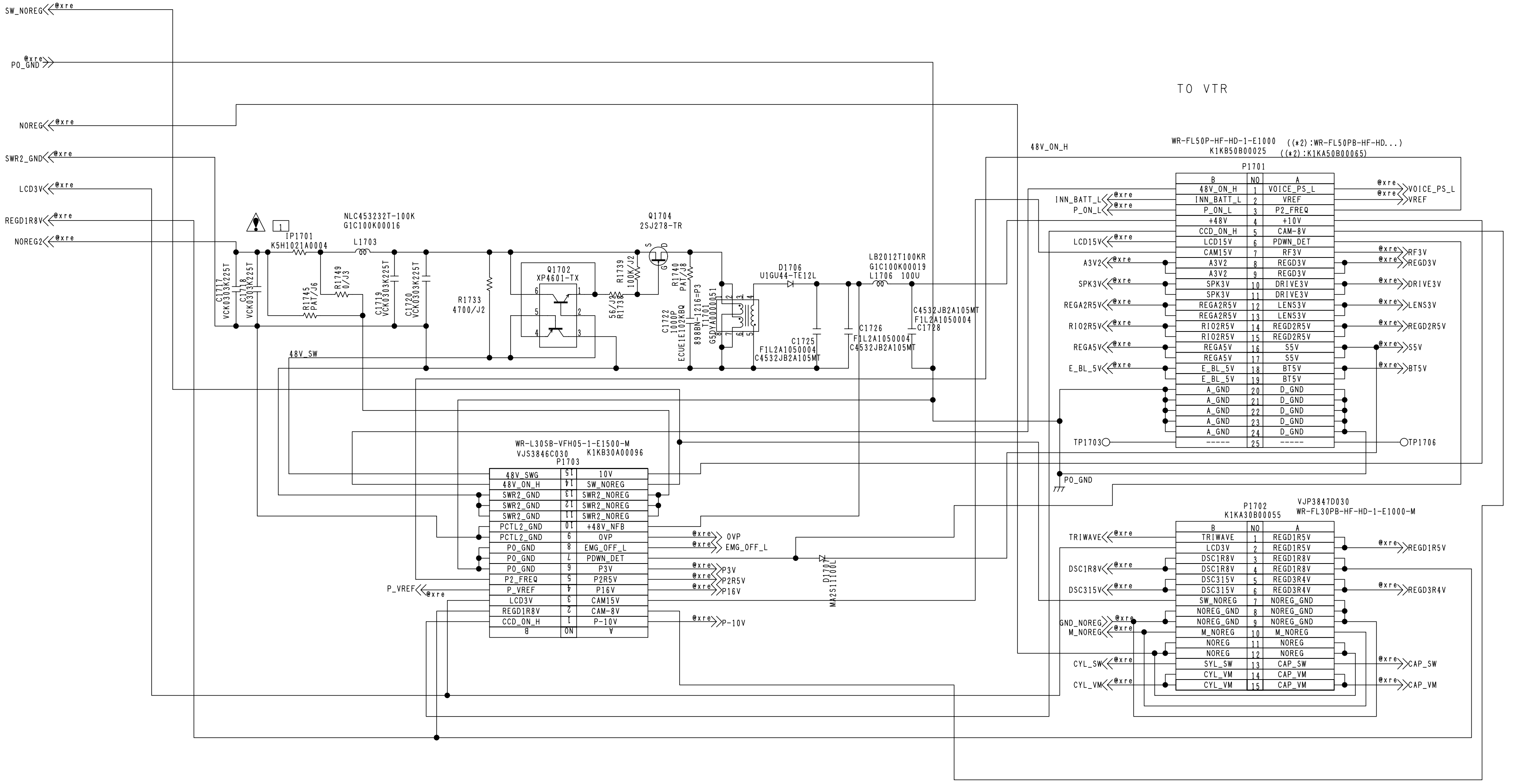


⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

COMPONENT NAME	POWER	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01914B	KR1F82 (1/2)-3 (0)	
	SCM015	


TO VTR
SW_NOREG
P0_GND
NOREG
SWR2_GND
LCD3V
REGD1R8V
NOREG2
TP1701
K5H1021A0004
NLC453232T-100K
G1C100K00016
L1703
R1745 PAT/J6
R1749 0/J3
C1717 VCK0303K225T
C1718 VCK0303K225T
C1719 VCK0303K225T
C1720 VCK0303K225T
R1733 4700/J2
Q1702 XP4601-TX
Q1704 2SJ278-TR
R1739 100K/J2
R1738 56/J2
R1740 PAT/J6
C1722 1000P ECUE1E102KBQ
T1701 898BN-1216=P3 G5DYA0000051
D1706 U1GU44-TE12L
C1725 F1L2A1050004 C4532JB2A105MT
C1726 F1L2A1050004 C4532JB2A105MT
C1728 C4532JB2A105MT F1L2A1050004
LB2012T100KR G1C100K00019
L1706 100U
48V_SW
48V_ON_H
WR-FL50P-HF-HD-1-E1000 ((*2):WR-FL50PB-HF-HD...)
K1KB50B00025 ((*2):K1KA50B00065)
P1701
INN_BATT_L
P_ON_L
LCD15V
A3V2
SPK3V
REGA2R5V
RIO2R5V
REGA5V
E_BL_5V
VOICE_PS_L
VREF
RF3V
REGD3V
DRIVE3V
LENS3V
REGD2R5V
S5V
BT5V
TP1703
TP1706
P0_GND
WR-L30SB-VFH05-1-E1500-M
VJS3846C030 K1KB30A00096
P1703
P_VREF
OVP
EMG_OFF_L
P3V
P2R5V
P16V
P-10V
D1707 MA2S111001
P1702
K1KA30B00055
VJP3847D030
WR-FL30PB-HF-HD-1-E1000-M
TRIWAVE
DSC1R8V
DSC315V
GND_NOREG
M_NOREG
CYL_SW
CYL_VM
REGD1R5V
REGD3R4V
CAP_SW
CAP_VM

P1701

B	NO	A
48V_ON_H	1	VOICE_PS_L
INN_BATT_L	2	VREF
P_ON_L	3	P2_FREQ
+48V	4	+10V
CCD_ON_H	5	CAM-8V
LCD15V	6	PDWN_DET
CAM15V	7	RF3V
A3V2	8	REGD3V
A3V2	9	REGD3V
SPK3V	10	DRIVE3V
SPK3V	11	DRIVE3V
REGA2R5V	12	LENS3V
REGA2R5V	13	LENS3V
RIO2R5V	14	REGD2R5V
RIO2R5V	15	REGD2R5V
REGA5V	16	S5V
REGA5V	17	S5V
E_BL_5V	18	BT5V
E_BL_5V	19	BT5V
A_GND	20	D_GND
A_GND	21	D_GND
A_GND	22	D_GND
A_GND	23	D_GND
A_GND	24	D_GND
-----	25	-----

P1703

B	ON	A
48V_SWG	15	10V
48V_ON_H	14	SW_NOREG
SWR2_GND	13	SWR2_NOREG
SWR2_GND	12	SWR2_NOREG
SWR2_GND	11	SWR2_NOREG
PCTL2_GND	10	+48V_NFB
PCTL2_GND	9	OVP
P0_GND	8	EMG_OFF_L
P0_GND	7	PDWN_DET
P0_GND	6	P3V
P2_FREQ	5	P2R5V
P_VREF	4	P16V
LCD3V	3	CAM15V
REGD1R8V	2	CAM-8V
CCD_ON_H	1	P-10V

P1702

B	NO	A
TRIWAVE	1	REGD1R5V
LCD3V	2	REGD1R5V
DSC1R8V	3	REGD1R8V
DSC1R8V	4	REGD1R8V
DSC315V	5	REGD3R4V
DSC315V	6	REGD3R4V
SW_NOREG	7	NOREG_GND
NOREG_GND	8	NOREG_GND
NOREG_GND	9	NOREG_GND
M_NOREG	10	M_NOREG
NOREG	11	NOREG
NOREG	12	NOREG
SYL_SW	13	CAP_SW
CYL_VM	14	CAP_VM
CYL_VM	15	CAP_VM

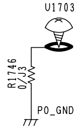
(*1)KISHU KIRIKAE

REF	MOUNT	BOARD DESGN	
P1801			

NOTE
(*1):KISHU KIRIKAE SANSHOU
(*2):PATTERN SEKKEI NO BUHIN

(*8):-1 KETUBAN

PAT=PATTERN ONLY
Ref No.1700 Series.

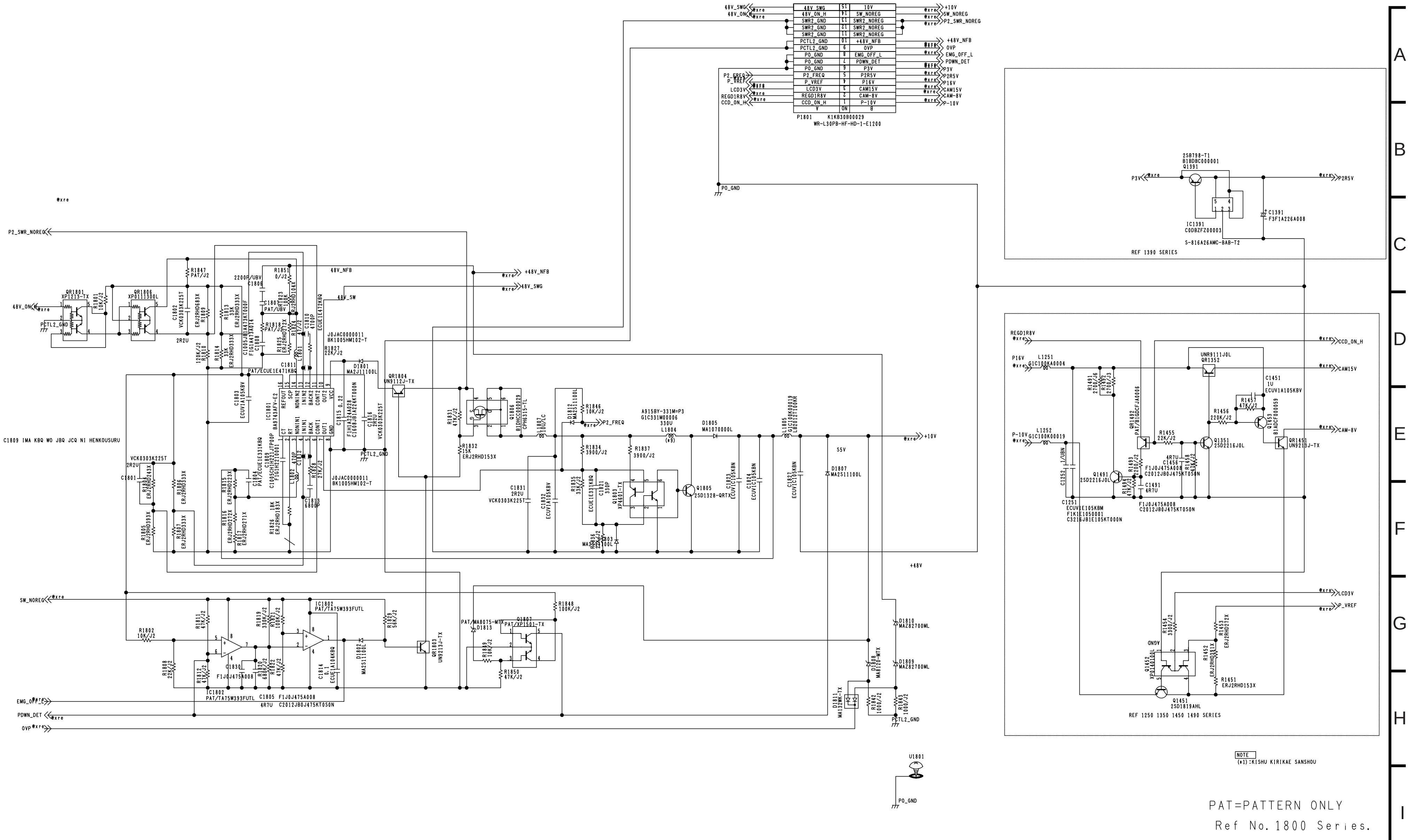

U1703
R1746
0/J3
P0_GND

⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

COMPONENT NAME	POWER	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01914B	KR1F82 (2/2)-3 (0)	
	SCM016	

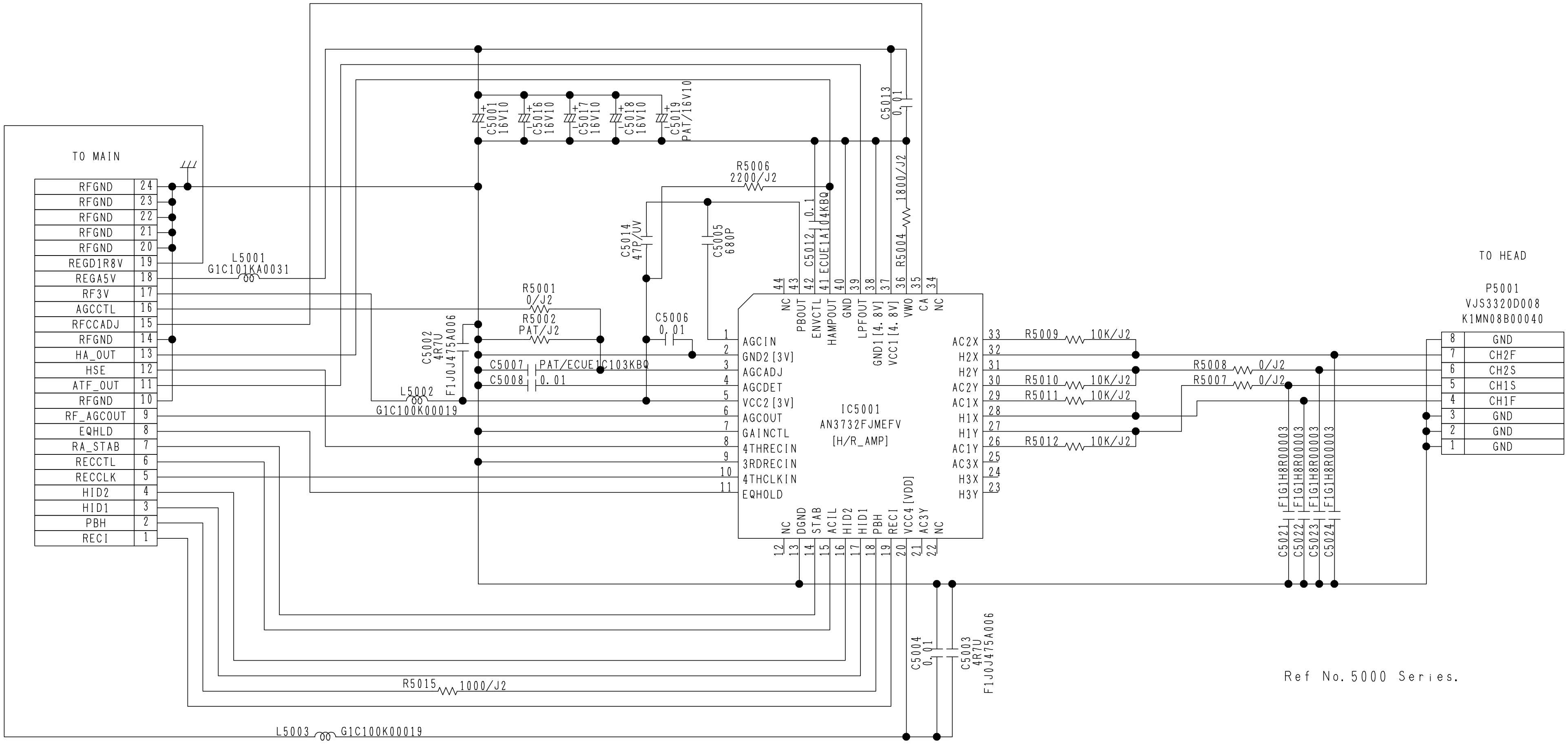

P1801 K1KB30B00029
WR-L30PB-HF-HD-1-E1200
48V_SWG
48V_ON_H
10V
SW_NOREG
SWR2_GND
SWR2_NOREG
PCTL2_GND
+48V_NFB
OVP
PO_GND
EMG_OFF_L
PDWN_DET
P3V
P2_FREQ
P2R5V
P_VREF
P16V
LCD3V
CAM15V
REGD1R8V
CAM-8V
CCD_ON_H
P-10V
+10V
P2_SWR_NOREG
+48V_NFB
+48V_SWG
QR1801 XP1213-TX
QR1806 XP0111300L
R1847 PAT/J2
R1851 0/J2
48V_NFB
48V_SW
IC1801 BA9743AFV-E2
J0JAC0000011 BK1005HM102-T
R1827 22K/J2
D1801 MA2J11100L
QR1804 UN9112J-TX
Q1806 B1DHCC000029 CPH6315-TL
D1812 MA2S11100L
R1846 10K/J2
P2_FREQ
A915BY-331M=P3
G1C331M00006
330U
L1804
D1805 MA1070000L
L1805 G1C100M00019 LB2012T100KR
R1832 15K ERJ2RHD153X
R1834 3900/J2
R1837 3900/J2
Q1803 XP4601-TX
Q1805 2SD1328-QRTX
C1831 2R2U VCK0303K225T
D1807 MA2S11100L
S5V
+48V
D1810 MAZ82700ML
D1809 MAZ82700ML
D1808 MA8120-MTX
D1811 MA132WK-TX
R1842 1000/J2
R1843 1000/J2
PCTL2_GND
U1801
PO_GND
C1809 IMA KBQ WO JBQ JCQ NI HENKOUSURU
SW_NOREG
R1802 10K/J2
IC1802 PAT/TA75W393FUTL
C1805 F1J0J475A008
4R7U C2012JB0J475KT0S0N
D1802 MA2S11100L
QR1803 UN9213J-TX
Q1807 PAT/XP1501-TX
PAT/MA8075-MTX D1813
R1848 100K/J2
R1849 10K/J2
R1850 47K/J2
EMG_OFF_L
PDWN_DET
OVP
2SB798-T1 B1BDBC000001 Q1391
P3V
P2R5V
IC1391 C0DBZFZ00003
S-816A26AMC-BAB-T2
C1391 F3F1A226A008
REF 1390 SERIES
REGD1R8V
CCD_ON_H
P16V
L1251 G1C100KA0004
UNR9111J0L QR1352
CAM15V
P-10V
L1252 G1C100K00019
C1451 1U ECUV1A105KBV
R1457 47K/J2
R1456 220K/J2
Q1453 B1ADCF000059
Q1351 2SD2216J0L
QR1451 UN9213J-TX
CAM-8V
Q1491 2SD2216J0L
C1491 4R7U
C1251 ECUV1E105KBM
F1K1E1050001
C3216JB1E105KT000N
F1J0J475A008
C2012JB0J475KT0S0N
LCD3V
P_VREF
Q1452 XP01401100L
Q1451 2SD1819AHL
R1452
R1451 ERJ2RHD153X
REF 1250 1350 1450 1490 SERIES

NOTE (*1):KISHU KIRIKAE SANSHOU

PAT=PATTERN ONLY

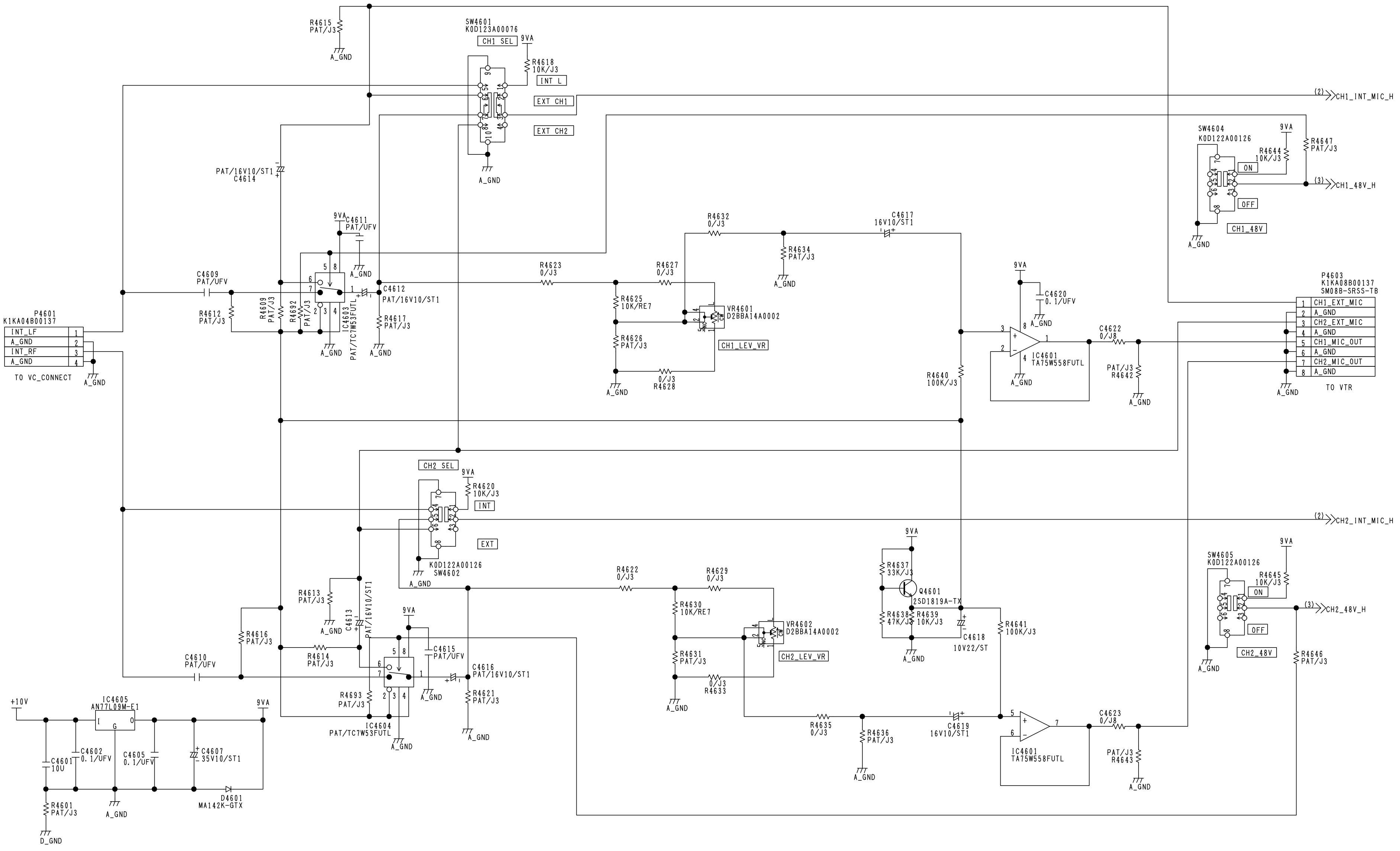
Ref No.1800 Series.

COMPONENT NAME	POWER 2	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01922A	KR1F94 (1/1) (0)	
	SCM017	


TO MAIN
RFGND 24
RFGND 23
RFGND 22
RFGND 21
RFGND 20
REGD1R8V 19
REGA5V 18
RF3V 17
AGCCTL 16
RFCCADJ 15
RFGND 14
HA_OUT 13
HSE 12
ATF_OUT 11
RFGND 10
RF_AGCOUT 9
EQHLD 8
RA_STAB 7
RECCTL 6
RECCLK 5
HID2 4
HID1 3
PBH 2
RECI 1
L5001 G1C101KA0031
L5002 G1C100K00019
L5003 G1C100K00019
C5002 4R7U F1J0J475A006
R5001 0/J2
R5002 PAT/J2
C5007 PAT/ECUE1C103KBQ
C5008 0.01
C5001 16V10
C5016 16V10
C5017 16V10
C5018 16V10
C5019 PAT/16V10
C5013 0.01
R5006 2200/J2
C5014 47P/UV
C5005 680P
C5006 0.01
C5012 0.1 ECUE1A104KBQ
R5004 1800/J2
IC5001 AN3732FJMEFV [H/R_AMP]
AGCIN 1
GND2[3V] 2
AGCADJ 3
AGCDET 4
VCC2[3V] 5
AGCOUT 6
GAINCTL 7
4THRECIN 8
3RDRECIN 9
4THCLKIN 10
EQHOLD 11
NC 44
PBOUT 43
ENVCTL 42
HAMPOUT 41
GND 40
LPFOUT 39
GND1[4.8V] 38
VCC1[4.8V] 37
VWO 36
CA 35
NC 34
AC2X 33
H2X 32
H2Y 31
AC2Y 30
AC1X 29
H1X 28
H1Y 27
AC1Y 26
AC3X 25
H3X 24
H3Y 23
NC 12
DGND 13
STAB 14
AC1L 15
HID2 16
HID1 17
PBH 18
RECI 19
VCC4[VDD] 20
AC3Y 21
NC 22
R5009 10K/J2
R5010 10K/J2
R5011 10K/J2
R5012 10K/J2
R5008 0/J2
R5007 0/J2
C5021 F1G1H8R00003
C5022 F1G1H8R00003
C5023 F1G1H8R00003
C5024 F1G1H8R00003
C5004 0.01
C5003 4R7U F1J0J475A006
R5015 1000/J2
TO HEAD
P5001 VJS3320D008 K1MN08B00040
8 GND
7 CH2F
6 CH2S
5 CH1S
4 CH1F
3 GND
2 GND
1 GND

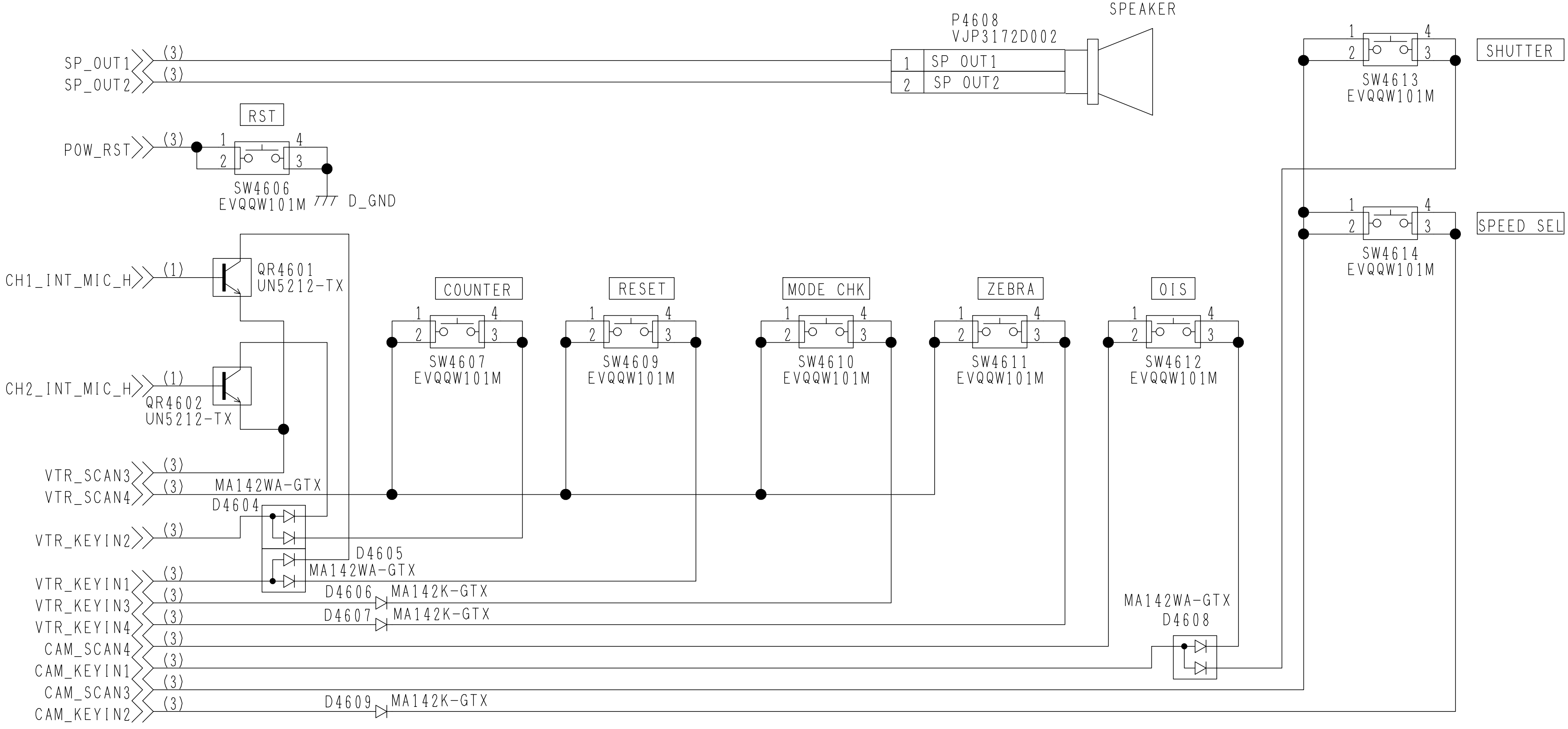
Ref No.5000 Series.

COMPONENT NAME	HR_AMP	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP05395A	KR5610 (1/1) (0)	
	SCM018	


R4615 PAT/J3
A_GND
SW4601 K0D123A00076
CH1 SEL
9VA
R4618 10K/J3
INT L
EXT CH1
EXT CH2
A_GND
(2) CH1_INT_MIC_H
PAT/16V10/ST1 C4614
SW4604 K0D122A00126
9VA
R4644 10K/J3
R4647 PAT/J3
ON
(3) CH1_48V_H
OFF
CH1_48V
A_GND
9VA
C4611 PAT/UFV
A_GND
R4632 0/J3
C4617 16V10/ST1
R4634 PAT/J3
A_GND
C4609 PAT/UFV
R4623 0/J3
R4627 0/J3
C4612 PAT/16V10/ST1
R4612 PAT/J3
R4609 PAT/J3
R4692 PAT/J3
IC4603 PAT/TC7W53FUTL
R4617 PAT/J3
A_GND
A_GND
R4625 10K/RE7
VR4601 D2BBA14A0002
R4626 PAT/J3
CH1_LEV_VR
0/J3 R4628
A_GND
9VA
C4620 0.1/UFV
A_GND
C4622 0/J8
IC4601 TA75W558FUTL
PAT/J3 R4642
A_GND
R4640 100K/J3
A_GND
P4601 K1KA04B00137
INT_LF
A_GND
INT_RF
A_GND
TO VC_CONNECT
A_GND
P4603 K1KA08B00137 SM08B-SRSS-TB
CH1_EXT_MIC
A_GND
CH2_EXT_MIC
A_GND
CH1_MIC_OUT
A_GND
CH2_MIC_OUT
A_GND
TO VTR
A_GND
CH2 SEL
9VA
R4620 10K/J3
INT
(2) CH2_INT_MIC_H
EXT
K0D122A00126 SW4602
A_GND
9VA
R4637 33K/J3
Q4601 2SD1819A-TX
R4638 47K/J3
R4639 10K/J3
C4618 10V22/ST
A_GND
9VA
SW4605 K0D122A00126
R4645 10K/J3
ON
(3) CH2_48V_H
OFF
CH2_48V
A_GND
R4646 PAT/J3
R4613 PAT/J3
A_GND
C4613 PAT/16V10/ST1
R4622 0/J3
R4629 0/J3
R4630 10K/RE7
VR4602 D2BBA14A0002
R4631 PAT/J3
CH2_LEV_VR
0/J3 R4633
A_GND
R4641 100K/J3
R4616 PAT/J3
9VA
R4614 PAT/J3
C4615 PAT/UFV
C4610 PAT/UFV
C4616 PAT/16V10/ST1
R4693 PAT/J3
A_GND
R4621 PAT/J3
IC4604 PAT/TC7W53FUTL
A_GND
A_GND
R4635 0/J3
R4636 PAT/J3
A_GND
C4619 16V10/ST1
IC4601 TA75W558FUTL
C4623 0/J8
PAT/J3 R4643
A_GND
+10V
IC4605 AN77L09M-E1
I G O
9VA
C4601 10U
C4602 0.1/UFV
C4605 0.1/UFV
C4607 35V10/ST1
D4601 MA142K-GTX
R4601 PAT/J3
D_GND
A_GND

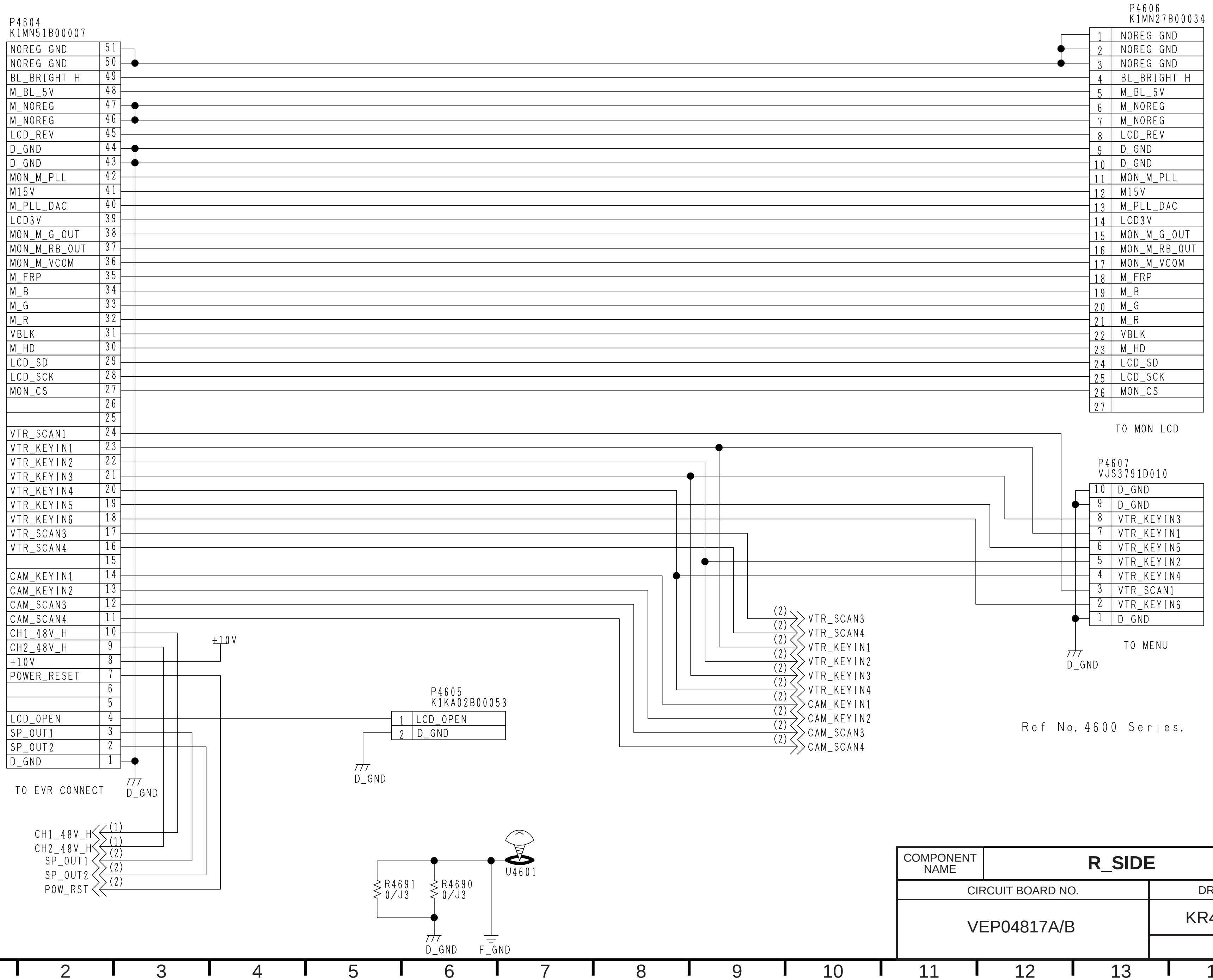
Ref No. 4600 Series.

COMPONENT NAME	R_SIDE	01/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04817A/B	KR4K97 (1/3) (1)	
	SCM019	

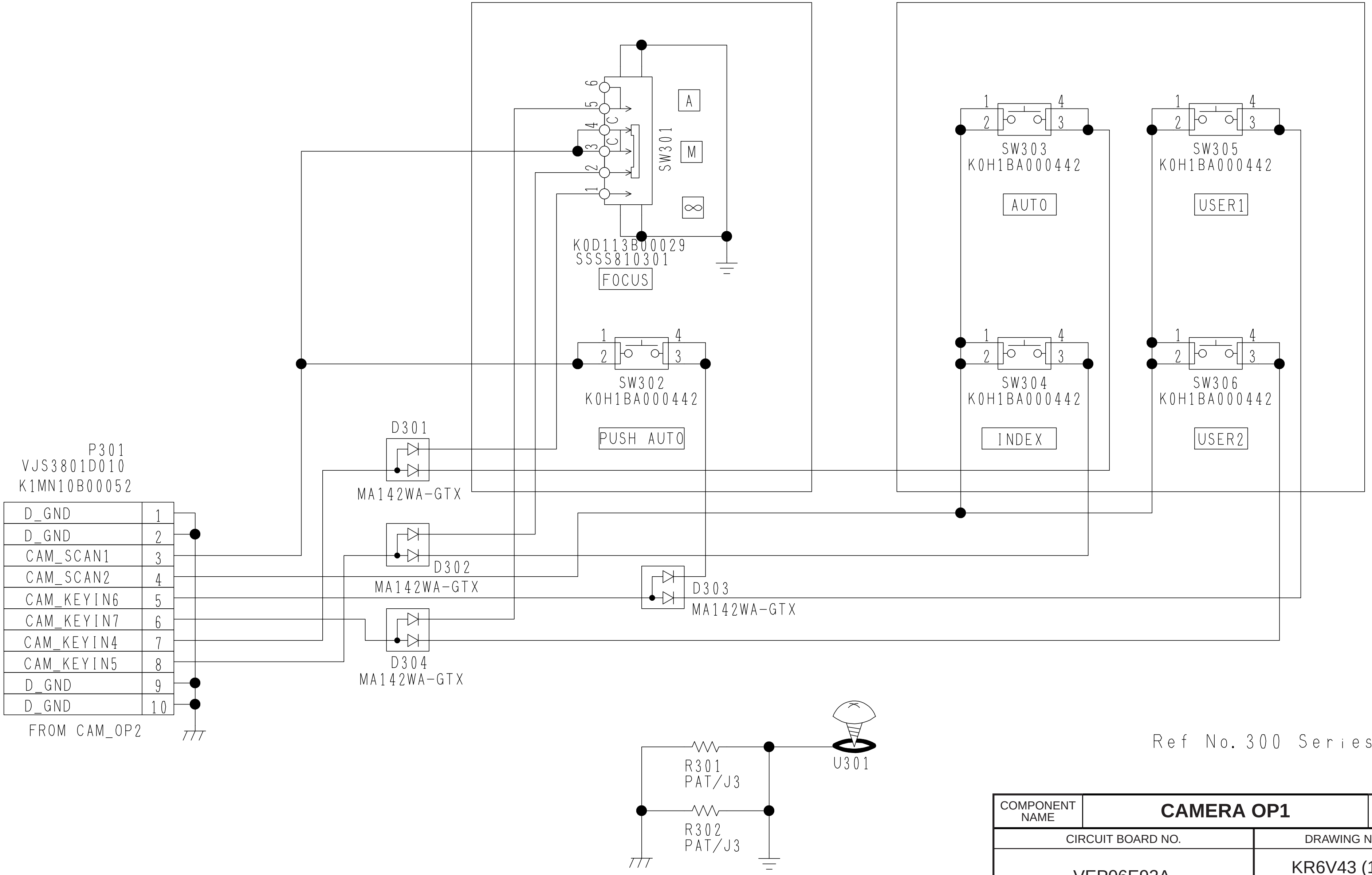

SP_OUT1
SP_OUT2
(3)
P4608
VJP3172D002
SPEAKER
1 SP OUT1
2 SP OUT2
RST
POW_RST
SW4606
EVQQW101M
D_GND
CH1_INT_MIC_H
(1)
QR4601
UN5212-TX
CH2_INT_MIC_H
QR4602
UN5212-TX
COUNTER
SW4607
EVQQW101M
RESET
SW4609
EVQQW101M
MODE CHK
SW4610
EVQQW101M
ZEBRA
SW4611
EVQQW101M
OIS
SW4612
EVQQW101M
SHUTTER
SW4613
EVQQW101M
SPEED SEL
SW4614
EVQQW101M
VTR_SCAN3
VTR_SCAN4
MA142WA-GTX
D4604
VTR_KEYIN2
D4605
MA142WA-GTX
VTR_KEYIN1
VTR_KEYIN3
VTR_KEYIN4
CAM_SCAN4
CAM_KEYIN1
CAM_SCAN3
CAM_KEYIN2
D4606
MA142K-GTX
D4607
MA142K-GTX
MA142WA-GTX
D4608
D4609
MA142K-GTX

Ref No. 4600 Series.

COMPONENT NAME	R_SIDE	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04817A/B	KR4K97 (2/3) (1)	
	SCM020	

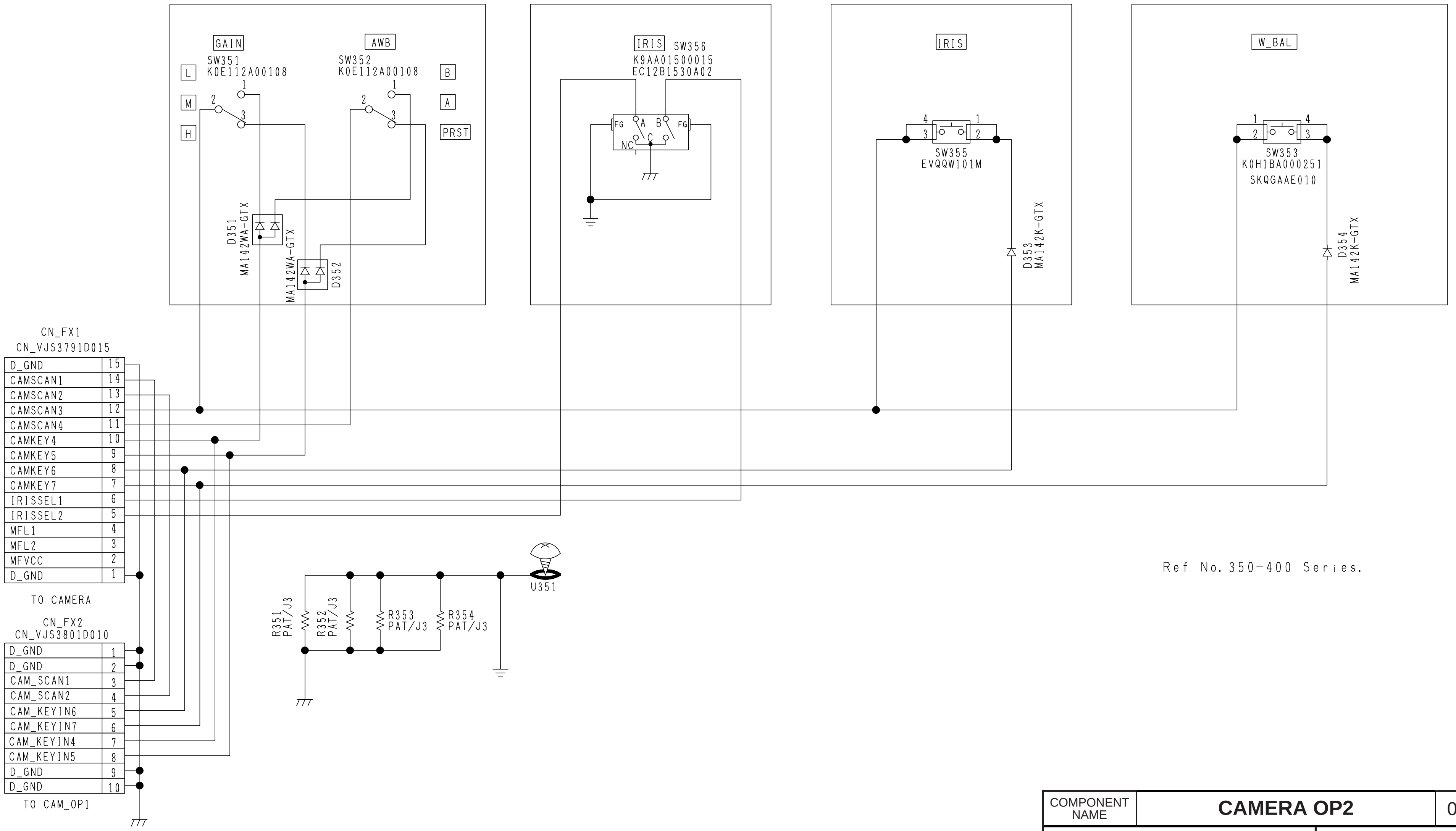

P4604
K1MN51B00007
51 NOREG GND
50 NOREG GND
49 BL_BRIGHT H
48 M_BL_5V
47 M_NOREG
46 M_NOREG
45 LCD_REV
44 D_GND
43 D_GND
42 MON_M_PLL
41 M15V
40 M_PLL_DAC
39 LCD3V
38 MON_M_G_OUT
37 MON_M_RB_OUT
36 MON_M_VCOM
35 M_FRP
34 M_B
33 M_G
32 M_R
31 VBLK
30 M_HD
29 LCD_SD
28 LCD_SCK
27 MON_CS
26
25
24 VTR_SCAN1
23 VTR_KEYIN1
22 VTR_KEYIN2
21 VTR_KEYIN3
20 VTR_KEYIN4
19 VTR_KEYIN5
18 VTR_KEYIN6
17 VTR_SCAN3
16 VTR_SCAN4
15
14 CAM_KEYIN1
13 CAM_KEYIN2
12 CAM_SCAN3
11 CAM_SCAN4
10 CH1_48V_H
9 CH2_48V_H
8 +10V
7 POWER_RESET
6
5
4 LCD_OPEN
3 SP_OUT1
2 SP_OUT2
1 D_GND
TO EVR CONNECT
D_GND
+10V
P4606
K1MN27B00034
1 NOREG GND
2 NOREG GND
3 NOREG GND
4 BL_BRIGHT H
5 M_BL_5V
6 M_NOREG
7 M_NOREG
8 LCD_REV
9 D_GND
10 D_GND
11 MON_M_PLL
12 M15V
13 M_PLL_DAC
14 LCD3V
15 MON_M_G_OUT
16 MON_M_RB_OUT
17 MON_M_VCOM
18 M_FRP
19 M_B
20 M_G
21 M_R
22 VBLK
23 M_HD
24 LCD_SD
25 LCD_SCK
26 MON_CS
27
TO MON LCD
P4607
VJS3791D010
10 D_GND
9 D_GND
8 VTR_KEYIN3
7 VTR_KEYIN1
6 VTR_KEYIN5
5 VTR_KEYIN2
4 VTR_KEYIN4
3 VTR_SCAN1
2 VTR_KEYIN6
1 D_GND
TO MENU
D_GND
(2) VTR_SCAN3
(2) VTR_SCAN4
(2) VTR_KEYIN1
(2) VTR_KEYIN2
(2) VTR_KEYIN3
(2) VTR_KEYIN4
(2) CAM_KEYIN1
(2) CAM_KEYIN2
(2) CAM_SCAN3
(2) CAM_SCAN4
P4605
K1KA02B00053
1 LCD_OPEN
2 D_GND
D_GND
Ref No. 4600 Series.
CH1_48V_H (1)
CH2_48V_H (1)
SP_OUT1 (2)
SP_OUT2 (2)
POW_RST (2)
R4691 0/J3
R4690 0/J3
U4601
D_GND
F_GND
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	R_SIDE	03/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04817A/B	KR4K97 (3/3) (1)	
	SCM021	


SW301
K0D113B00029
SSSS810301
FOCUS
A
M
∞
1
2
3
4
5
6
C
C
SW303
K0H1BA000442
AUTO
SW305
K0H1BA000442
USER1
SW302
K0H1BA000442
PUSH AUTO
SW304
K0H1BA000442
INDEX
SW306
K0H1BA000442
USER2
D301
MA142WA-GTX
D302
MA142WA-GTX
D303
MA142WA-GTX
D304
MA142WA-GTX
P301
VJS3801D010
K1MN10B00052
D_GND 1
D_GND 2
CAM_SCAN1 3
CAM_SCAN2 4
CAM_KEYIN6 5
CAM_KEYIN7 6
CAM_KEYIN4 7
CAM_KEYIN5 8
D_GND 9
D_GND 10
FROM CAM_OP2
R301
PAT/J3
R302
PAT/J3
U301

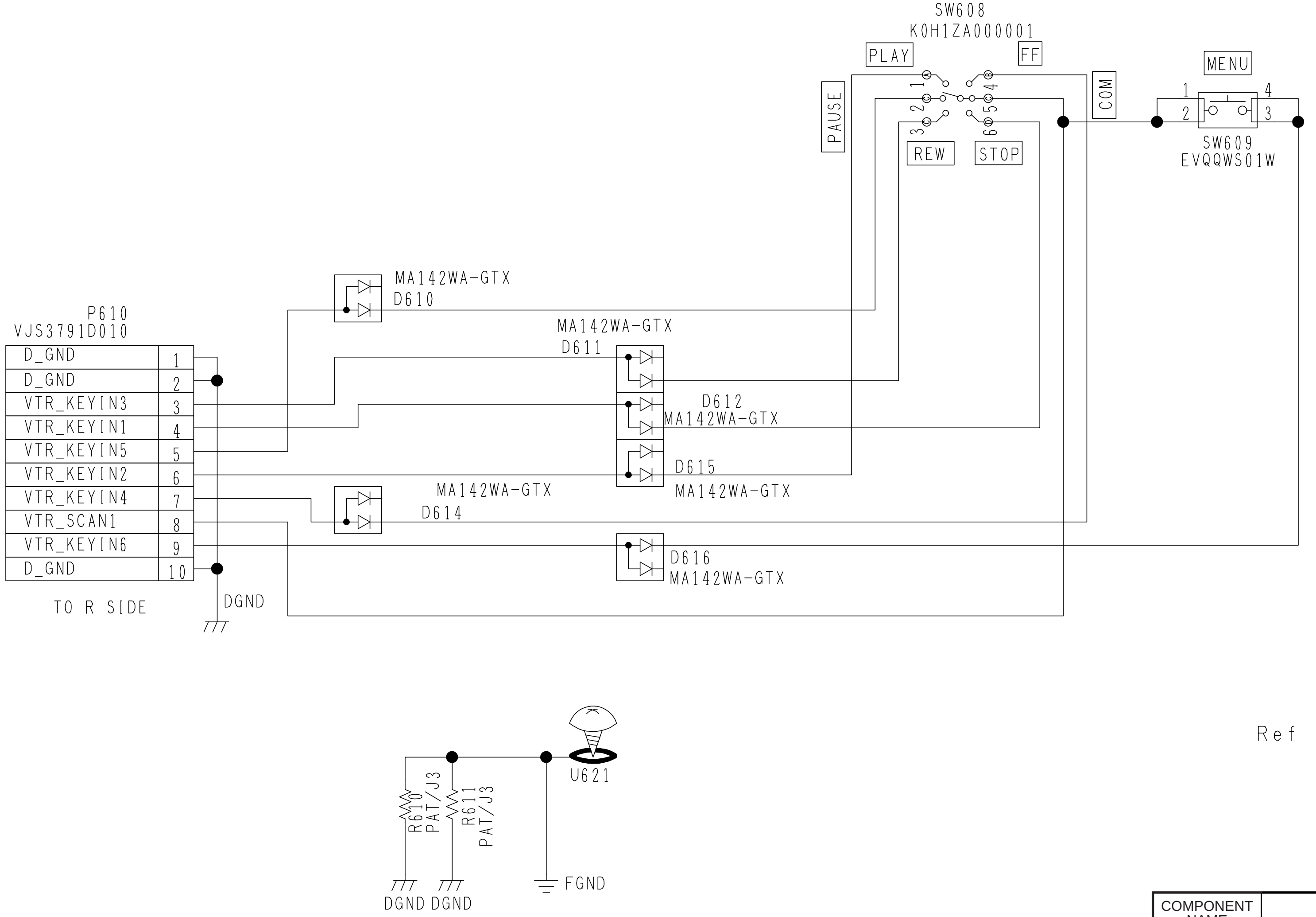
Ref No. 300 Series.

COMPONENT NAME	**CAMERA OP1**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06E92A	KR6V43 (1/1) (0)	
	SCM022	


GAIN
SW351
K0E112A00108
L
M
H
AWB
SW352
K0E112A00108
B
A
PRST
D351
MA142WA-GTX
MA142WA-GTX
D352
IRIS
SW356
K9AA01500015
EC12B1530A02
FG
A
B
NC
C
IRIS
SW355
EVQQW101M
D353
MA142K-GTX
W_BAL
SW353
K0H1BA000251
SKQGAAE010
D354
MA142K-GTX
CN_FX1
CN_VJS3791D015
D_GND 15
CAMSCAN1 14
CAMSCAN2 13
CAMSCAN3 12
CAMSCAN4 11
CAMKEY4 10
CAMKEY5 9
CAMKEY6 8
CAMKEY7 7
IRISSEL1 6
IRISSEL2 5
MFL1 4
MFL2 3
MFVCC 2
D_GND 1
TO CAMERA
CN_FX2
CN_VJS3801D010
D_GND 1
D_GND 2
CAM_SCAN1 3
CAM_SCAN2 4
CAM_KEYIN6 5
CAM_KEYIN7 6
CAM_KEYIN4 7
CAM_KEYIN5 8
D_GND 9
D_GND 10
TO CAM_OP1
R351 PAT/J3
R352 PAT/J3
R353 PAT/J3
R354 PAT/J3
U351
Ref No. 350-400 Series.

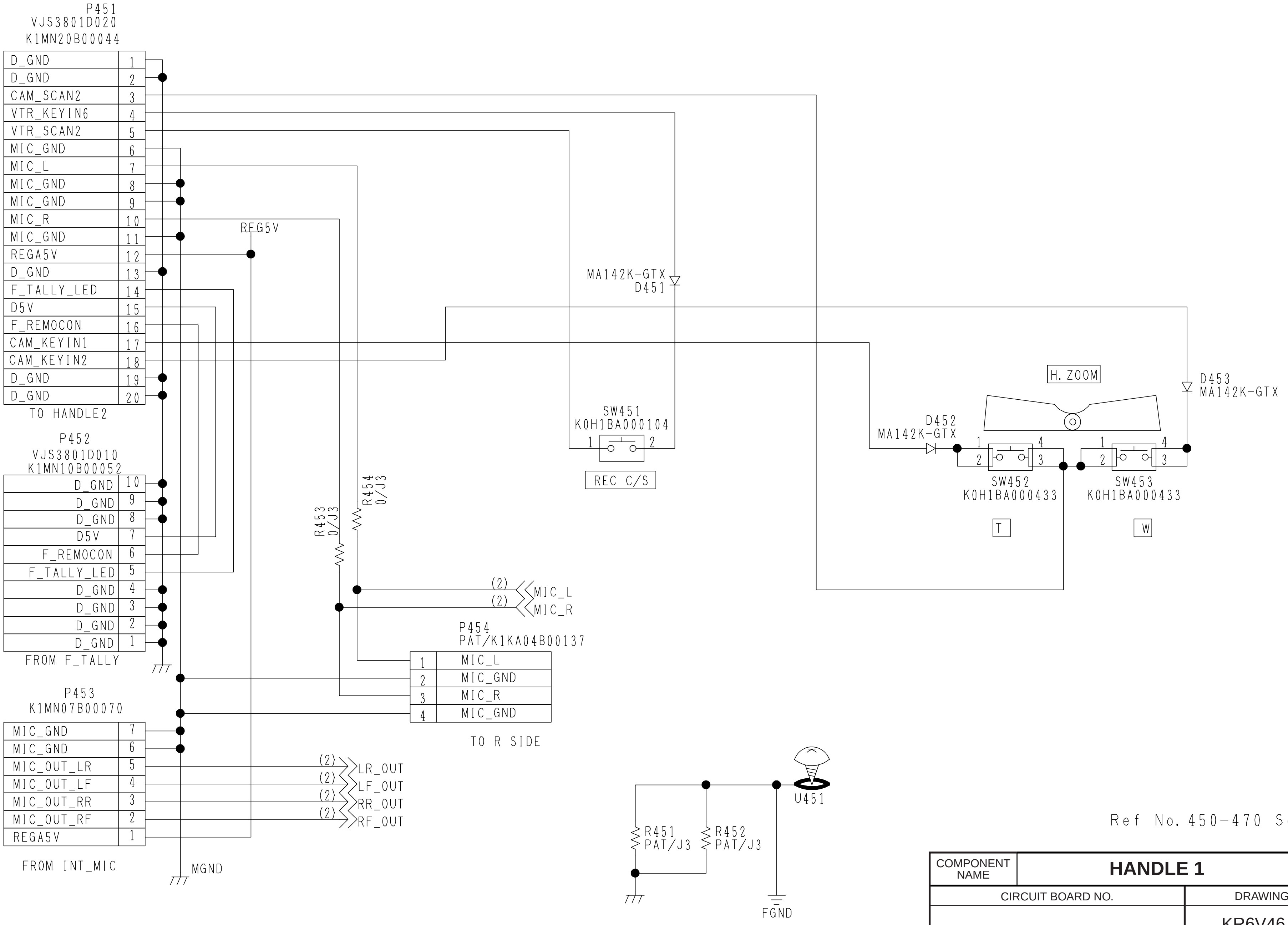
COMPONENT NAME	CAMERA OP2	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06E93A	KR6V44 (1/1) (0)	
	SCM023	

A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15


SW608
K0H1ZA000001
PLAY
FF
PAUSE
REW
STOP
COM
1
2
3
4
5
6
MENU
SW609
EVQQWS01W
P610
VJS3791D010
D_GND
D_GND
VTR_KEYIN3
VTR_KEYIN1
VTR_KEYIN5
VTR_KEYIN2
VTR_KEYIN4
VTR_SCAN1
VTR_KEYIN6
D_GND
1
2
3
4
5
6
7
8
9
10
TO R SIDE
DGND
MA142WA-GTX
D610
MA142WA-GTX
D611
D612
MA142WA-GTX
D615
MA142WA-GTX
MA142WA-GTX
D614
D616
MA142WA-GTX
U621
R610
PAT/J3
R611
PAT/J3
DGND
DGND
FGND

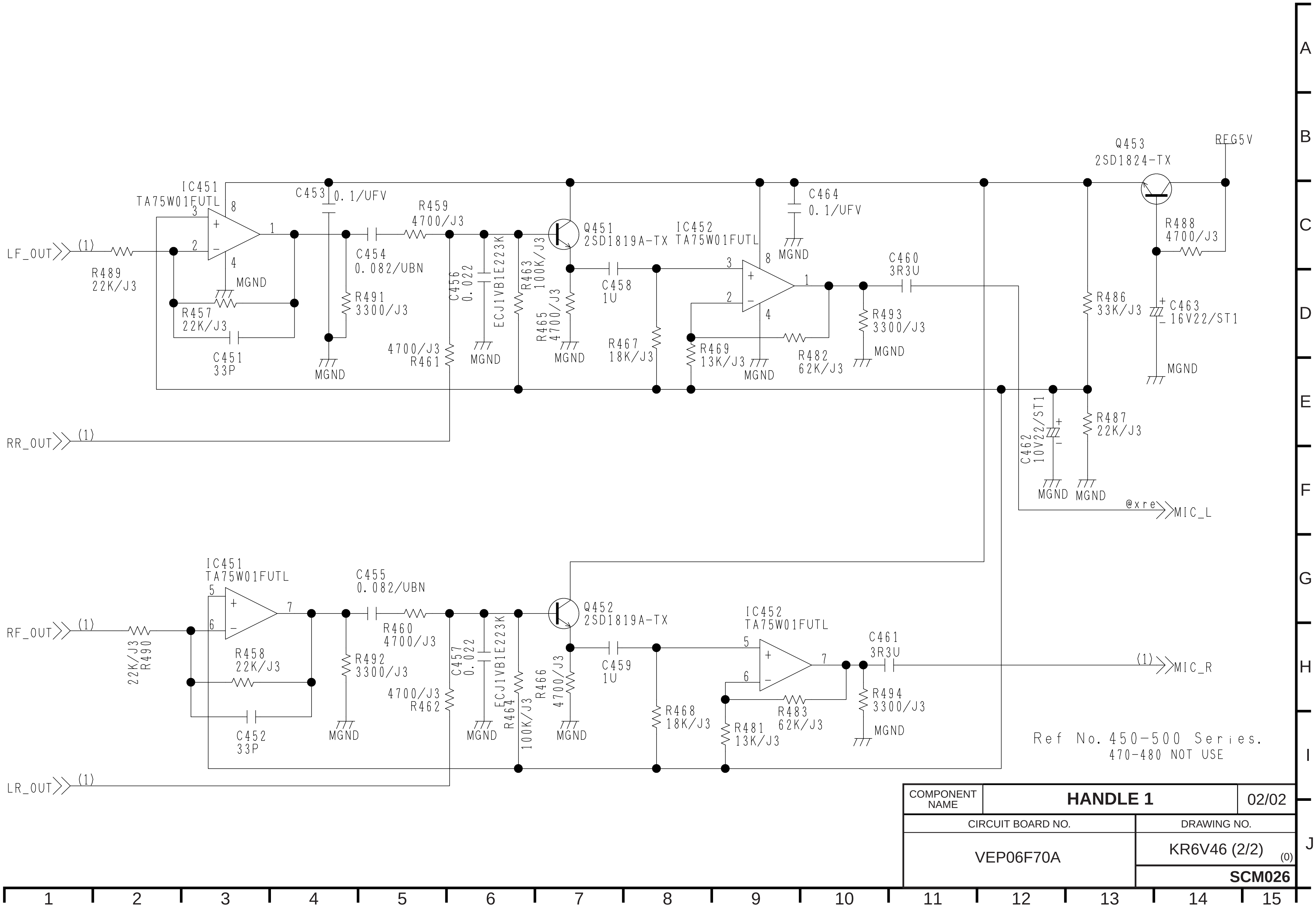
Ref No. 601-650 Series.

COMPONENT NAME	MENU		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP001E7A		KR0S74 (1/1) (0)	
		SCM024	

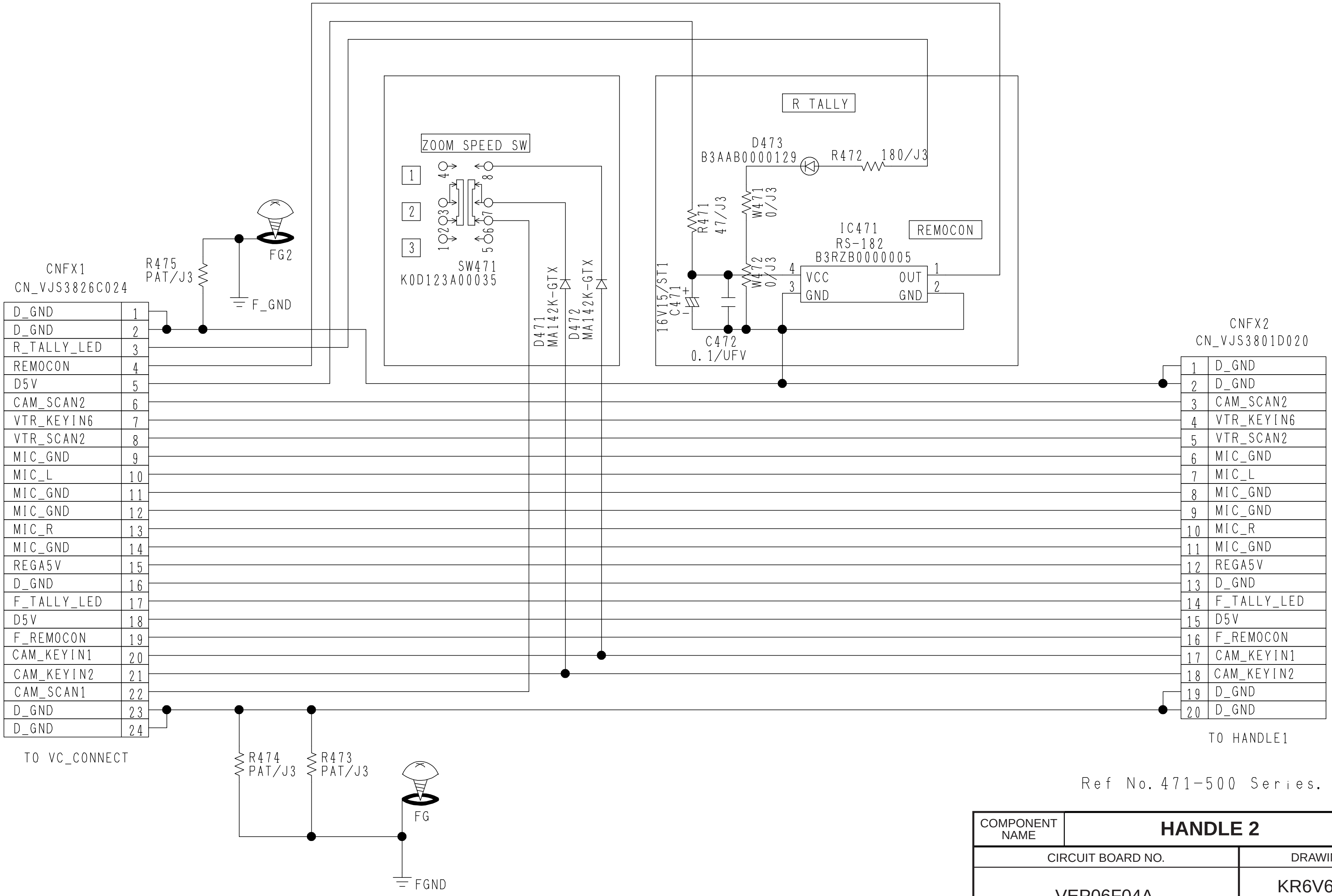

P451
VJS3801D020
K1MN20B00044
1 D_GND
2 D_GND
3 CAM_SCAN2
4 VTR_KEYIN6
5 VTR_SCAN2
6 MIC_GND
7 MIC_L
8 MIC_GND
9 MIC_GND
10 MIC_R
11 MIC_GND
12 REGA5V
13 D_GND
14 F_TALLY_LED
15 D5V
16 F_REMOCON
17 CAM_KEYIN1
18 CAM_KEYIN2
19 D_GND
20 D_GND
TO HANDLE2
P452
VJS3801D010
K1MN10B00052
10 D_GND
9 D_GND
8 D_GND
7 D5V
6 F_REMOCON
5 F_TALLY_LED
4 D_GND
3 D_GND
2 D_GND
1 D_GND
FROM F_TALLY
P453
K1MN07B00070
7 MIC_GND
6 MIC_GND
5 MIC_OUT_LR
4 MIC_OUT_LF
3 MIC_OUT_RR
2 MIC_OUT_RF
1 REGA5V
FROM INT_MIC
MGND
REG5V
R453
0/J3
R454
0/J3
(2) MIC_L
(2) MIC_R
(2) LR_OUT
(2) LF_OUT
(2) RR_OUT
(2) RF_OUT
P454
PAT/K1KA04B00137
1 MIC_L
2 MIC_GND
3 MIC_R
4 MIC_GND
TO R SIDE
MA142K-GTX
D451
SW451
K0H1BA000104
1 2
REC C/S
D452
MA142K-GTX
H. ZOOM
D453
MA142K-GTX
1 4 2 3
SW452
K0H1BA000433
T
1 4 2 3
SW453
K0H1BA000433
W
U451
R451
PAT/J3
R452
PAT/J3
FGND

Ref No. 450-470 Series.

COMPONENT NAME	HANDLE 1	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F70A	KR6V46 (1/2) (0)	
	SCM025	

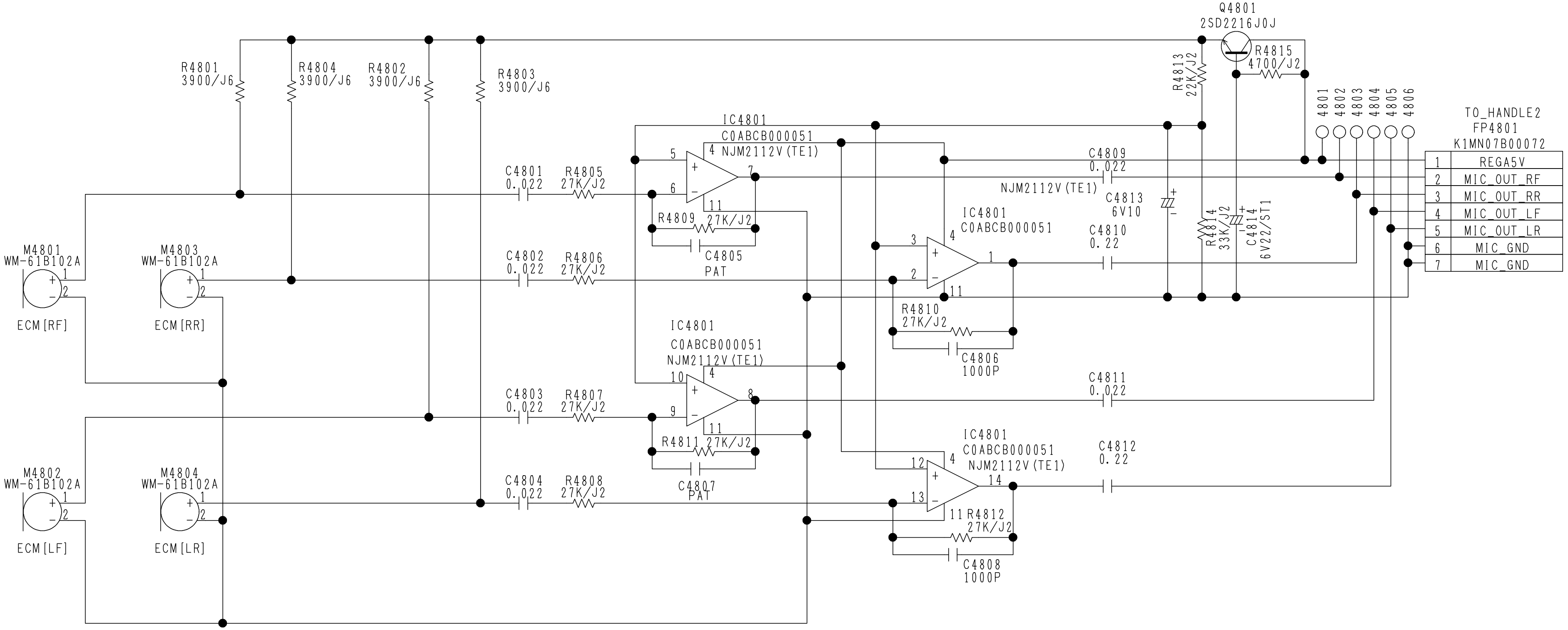

IC451
TA75W01FUTL
C453
0.1/UFV
R459
4700/J3
Q451
2SD1819A-TX
IC452
TA75W01FUTL
C464
0.1/UFV
Q453
2SD1824-TX
REG5V
R488
4700/J3
LF_OUT
(1)
R489
22K/J3
MGND
R457
22K/J3
C451
33P
C454
0.082/UBN
R491
3300/J3
C456
0.022
ECJ1VB1E223K
R463
100K/J3
R465
4700/J3
C458
1U
R467
18K/J3
R469
13K/J3
C460
3R3U
R493
3300/J3
R482
62K/J3
R486
33K/J3
C463
16V22/ST1
4700/J3
R461
C462
10V22/ST1
R487
22K/J3
RR_OUT
(1)
@xre
MIC_L
IC451
TA75W01FUTL
C455
0.082/UBN
R460
4700/J3
Q452
2SD1819A-TX
IC452
TA75W01FUTL
C461
3R3U
RF_OUT
(1)
22K/J3
R490
R458
22K/J3
C452
33P
R492
3300/J3
4700/J3
R462
C457
0.022
ECJ1VB1E223K
R464
100K/J3
R466
4700/J3
C459
1U
R468
18K/J3
R481
13K/J3
R483
62K/J3
R494
3300/J3
(1)
MIC_R
LR_OUT
(1)
Ref No. 450-500 Series.
470-480 NOT USE
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	HANDLE 1	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F70A	KR6V46 (2/2) (0)	
	SCM026	


CNFX1
CN_VJS3826C024
1 D_GND
2 D_GND
3 R_TALLY_LED
4 REMOCON
5 D5V
6 CAM_SCAN2
7 VTR_KEYIN6
8 VTR_SCAN2
9 MIC_GND
10 MIC_L
11 MIC_GND
12 MIC_GND
13 MIC_R
14 MIC_GND
15 REGA5V
16 D_GND
17 F_TALLY_LED
18 D5V
19 F_REMOCON
20 CAM_KEYIN1
21 CAM_KEYIN2
22 CAM_SCAN1
23 D_GND
24 D_GND
TO VC_CONNECT
R475
PAT/J3
F_GND
FG2
ZOOM SPEED SW
1
2
3
SW471
K0D123A00035
D471
MA142K-GTX
D472
MA142K-GTX
R TALLY
D473
B3AAB0000129
R472 180/J3
R471 47/J3
W471 0/J3
W472 0/J3
IC471
RS-182
B3RZB0000005
REMOCON
VCC
GND
OUT
GND
16V15/ST1
C471
C472
0.1/UFV
R474
PAT/J3
R473
PAT/J3
FG
FGND
CNFX2
CN_VJS3801D020
1 D_GND
2 D_GND
3 CAM_SCAN2
4 VTR_KEYIN6
5 VTR_SCAN2
6 MIC_GND
7 MIC_L
8 MIC_GND
9 MIC_GND
10 MIC_R
11 MIC_GND
12 REGA5V
13 D_GND
14 F_TALLY_LED
15 D5V
16 F_REMOCON
17 CAM_KEYIN1
18 CAM_KEYIN2
19 D_GND
20 D_GND
TO HANDLE1

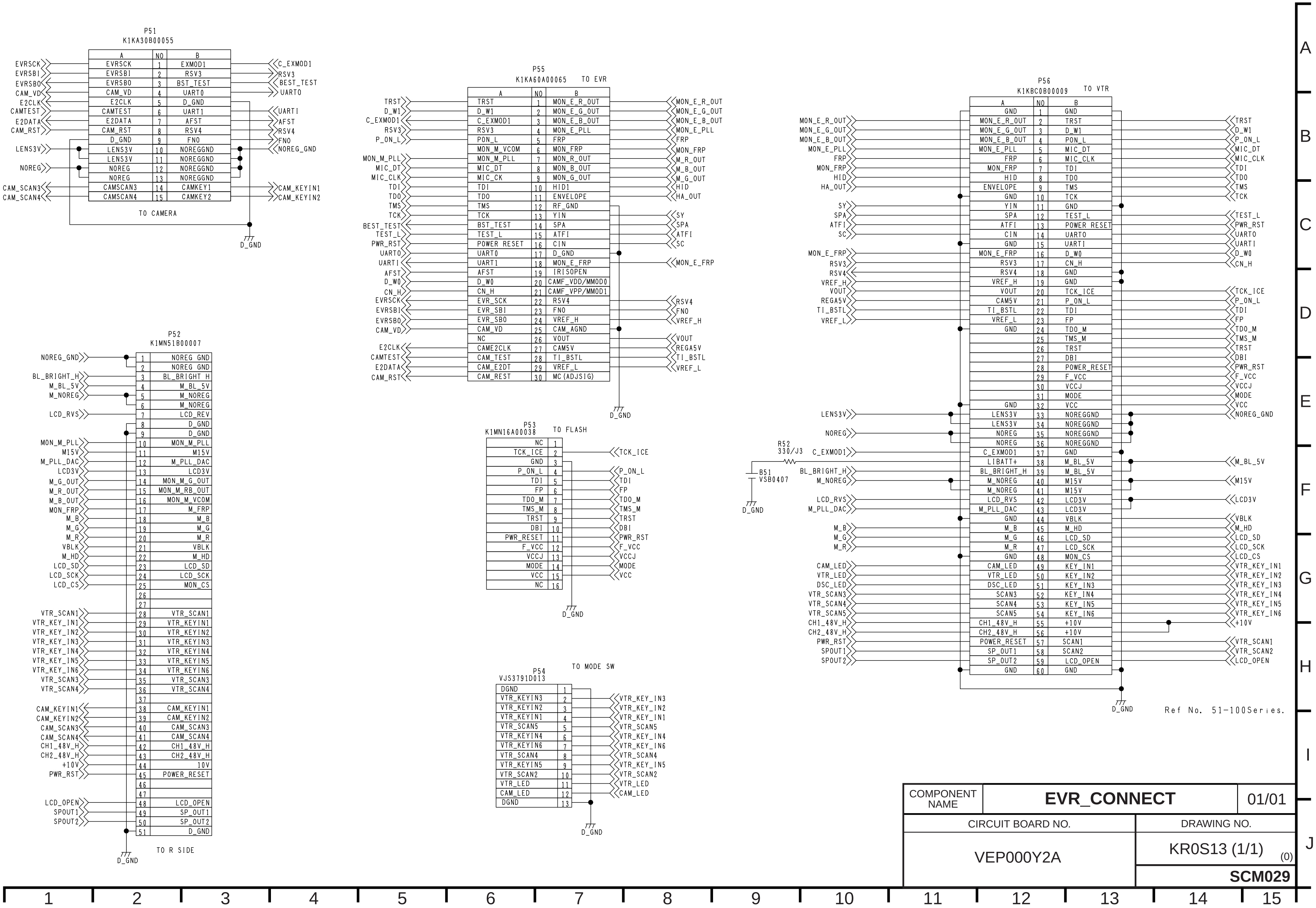
Ref No. 471-500 Series.

COMPONENT NAME	HANDLE 2	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F04A	KR6V62 (1/1) (0)	
	SCM027	


Q4801
2SD2216J0J
R4815
4700/J2
R4813
22K/J2
R4801
3900/J6
R4804
3900/J6
R4802
3900/J6
R4803
3900/J6
IC4801
C0ABCB000051
NJM2112V(TE1)
C4801
0.022
R4805
27K/J2
R4809
27K/J2
C4805
PAT
C4809
0.022
NJM2112V(TE1)
C4813
6V10
C4810
0.22
R4814
33K/J2
C4814
6V22/ST1
R4810
27K/J2
C4806
1000P
4801
4802
4803
4804
4805
4806
TO_HANDLE2
FP4801
K1MN07B00072
1 REGA5V
2 MIC_OUT_RF
3 MIC_OUT_RR
4 MIC_OUT_LF
5 MIC_OUT_LR
6 MIC_GND
7 MIC_GND
M4801
WM-61B102A
ECM[RF]
M4803
WM-61B102A
ECM[RR]
C4802
0.022
R4806
27K/J2
C4803
0.022
R4807
27K/J2
R4811
27K/J2
C4807
PAT
C4811
0.022
M4802
WM-61B102A
ECM[LF]
M4804
WM-61B102A
ECM[LR]
C4804
0.022
R4808
27K/J2
C4812
0.22
R4812
27K/J2
C4808
1000P

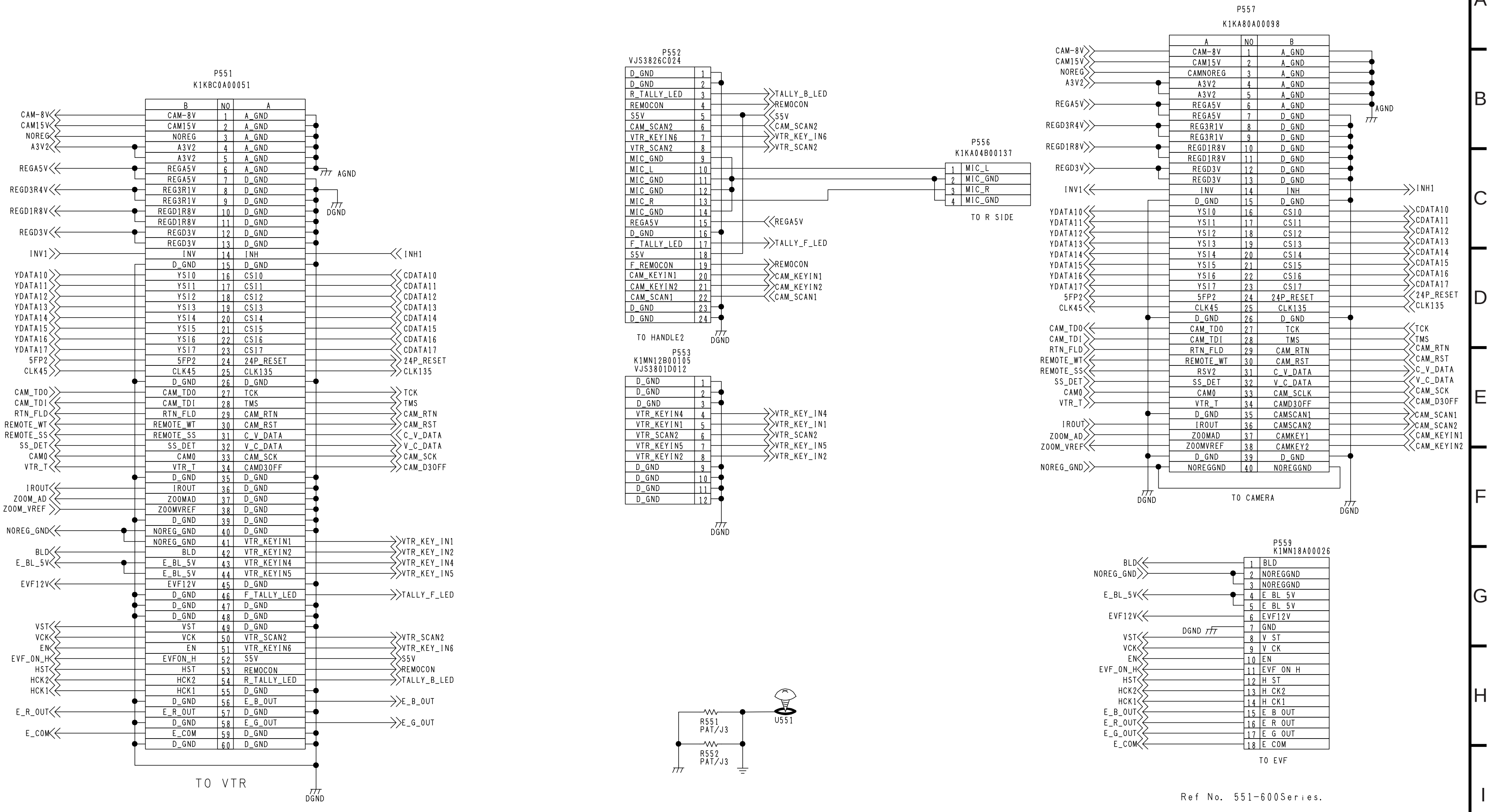
Ref No.4800 Series.

COMPONENT NAME	MIC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04828A	KR4L33 (1/1) (0)	
	SCM028	

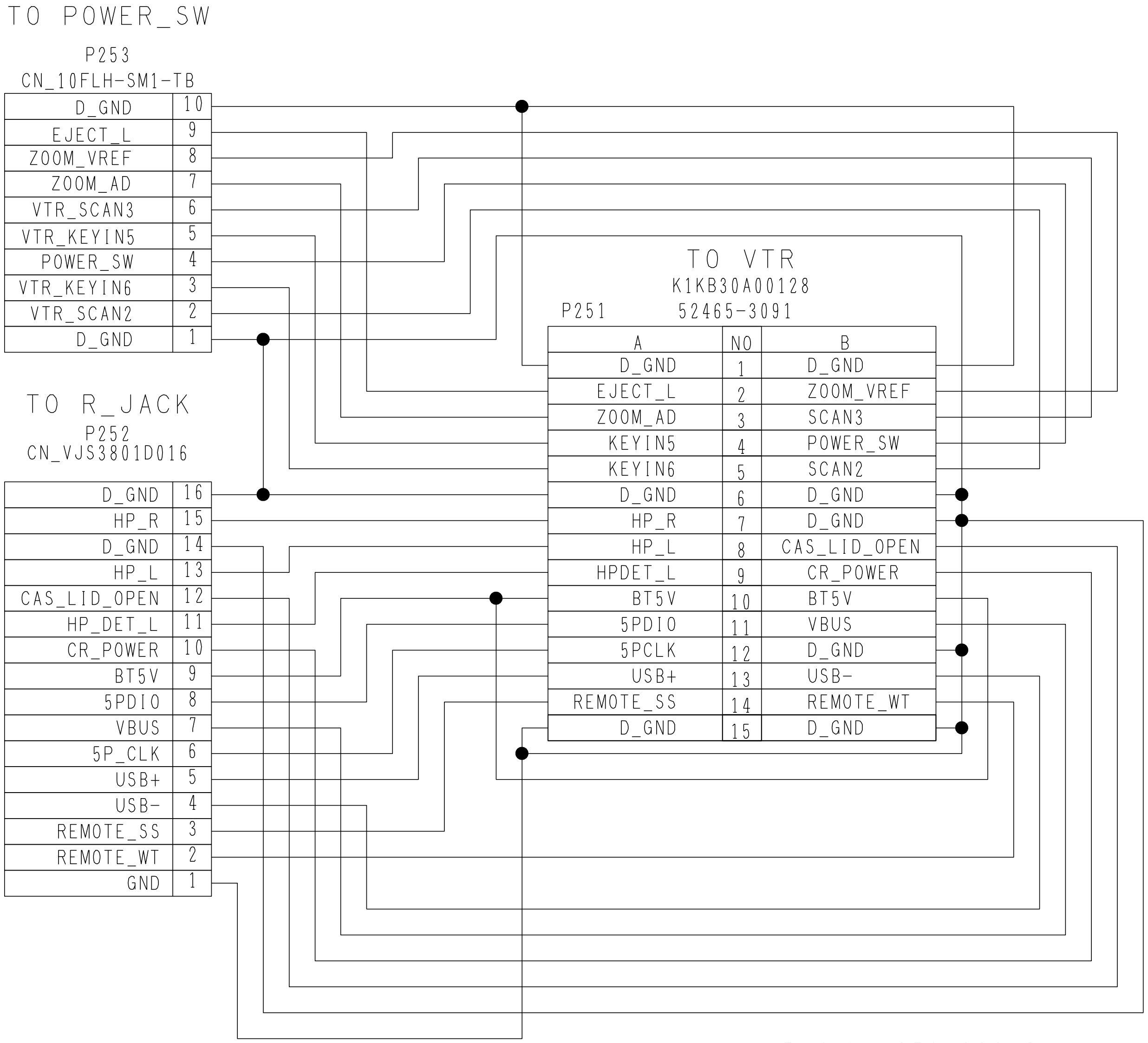

P51
K1KA30B00055
TO CAMERA
P52
K1MN51B00007
TO R SIDE
P53
K1MN16A00038
TO FLASH
P54
VJS3791D013
TO MODE SW
P55
K1KA60A00065
TO EVR
P56
K1KBC0B00009
TO VTR
R52
330/J3
B51
VSB0407
D_GND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Ref No. 51-100Series.

COMPONENT NAME	EVR_CONNECT	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000Y2A	KR0S13 (1/1) (0)	
	SCM029	

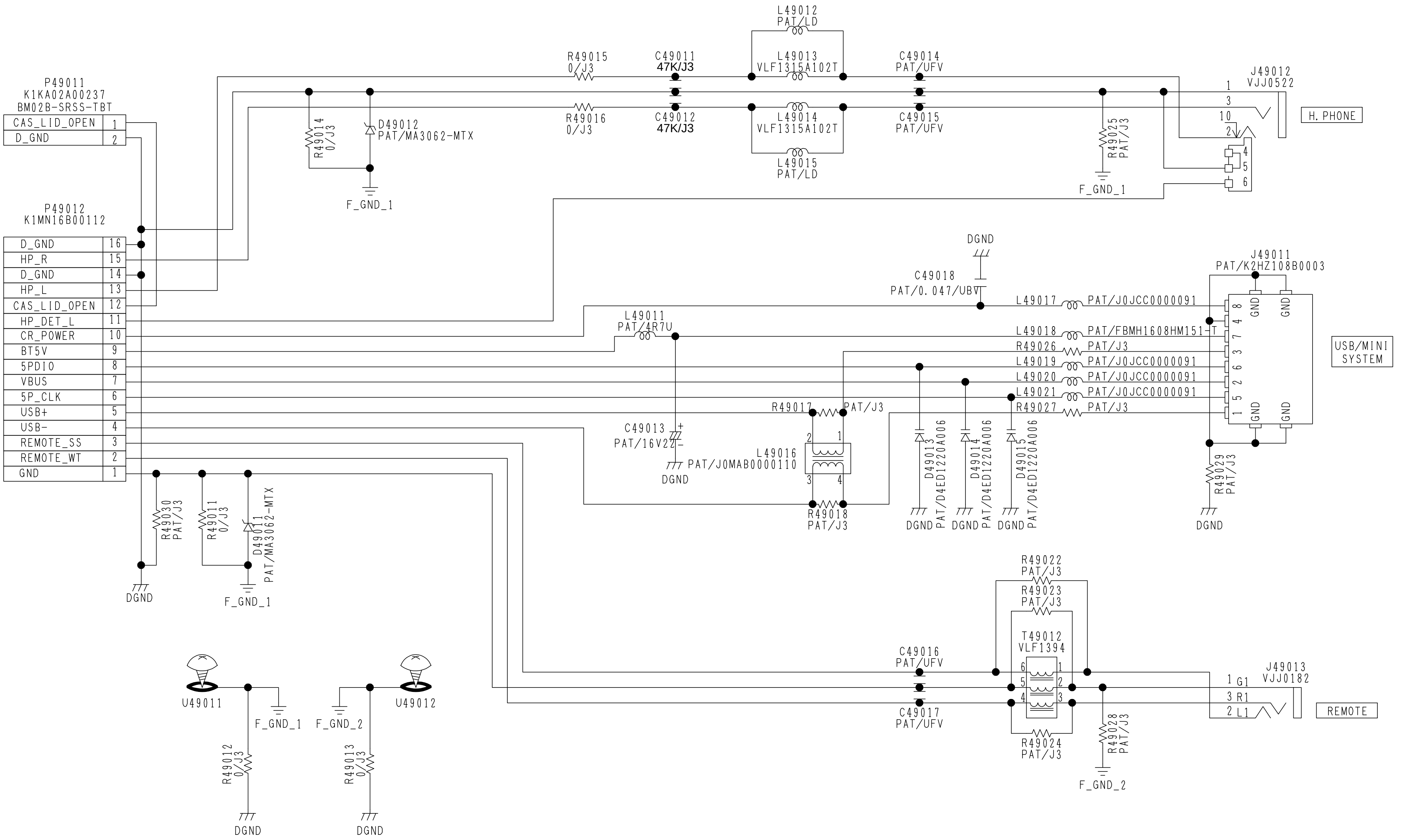

P551
K1KBC0A00051
B NO A
1 CAM-8V A_GND
2 CAM15V A_GND
3 NOREG A_GND
4 A3V2 A_GND
5 A3V2 A_GND
6 REGA5V A_GND
7 REGA5V D_GND
8 REG3R1V D_GND
9 REG3R1V D_GND
10 REGD1R8V D_GND
11 REGD1R8V D_GND
12 REGD3V D_GND
13 REGD3V D_GND
14 INV INH
15 D_GND D_GND
16 YSI0 CSI0
17 YSI1 CSI1
18 YSI2 CSI2
19 YSI3 CSI3
20 YSI4 CSI4
21 YSI5 CSI5
22 YSI6 CSI6
23 YSI7 CSI7
24 5FP2 24P_RESET
25 CLK45 CLK135
26 D_GND D_GND
27 CAM_TDO TCK
28 CAM_TDI TMS
29 RTN_FLD CAM_RTN
30 REMOTE_WT CAM_RST
31 REMOTE_SS C_V_DATA
32 SS_DET V_C_DATA
33 CAM0 CAM_SCK
34 VTR_T CAMD3OFF
35 D_GND D_GND
36 IROUT D_GND
37 ZOOMAD D_GND
38 ZOOMVREF D_GND
39 D_GND D_GND
40 NOREG_GND D_GND
41 NOREG_GND VTR_KEYIN1
42 BLD VTR_KEYIN2
43 E_BL_5V VTR_KEYIN4
44 E_BL_5V VTR_KEYIN5
45 EVF12V D_GND
46 D_GND F_TALLY_LED
47 D_GND D_GND
48 D_GND D_GND
49 VST D_GND
50 VCK VTR_SCAN2
51 EN VTR_KEYIN6
52 EVFON_H S5V
53 HST REMOCON
54 HCK2 R_TALLY_LED
55 HCK1 D_GND
56 D_GND E_B_OUT
57 E_R_OUT D_GND
58 D_GND E_G_OUT
59 E_COM D_GND
60 D_GND D_GND
CAM-8V
CAM15V
NOREG
A3V2
REGA5V
REGD3R4V
REGD1R8V
REGD3V
INV1
YDATA10
YDATA11
YDATA12
YDATA13
YDATA14
YDATA15
YDATA16
YDATA17
5FP2
CLK45
CAM_TDO
CAM_TDI
RTN_FLD
REMOTE_WT
REMOTE_SS
SS_DET
CAM0
VTR_T
IROUT
ZOOM_AD
ZOOM_VREF
NOREG_GND
BLD
E_BL_5V
EVF12V
VST
VCK
EN
EVF_ON_H
HST
HCK2
HCK1
E_R_OUT
E_COM
AGND
DGND
INH1
CDATA10
CDATA11
CDATA12
CDATA13
CDATA14
CDATA15
CDATA16
CDATA17
24P_RESET
CLK135
TCK
TMS
CAM_RTN
CAM_RST
C_V_DATA
V_C_DATA
CAM_SCK
CAM_D30FF
VTR_KEY_IN1
VTR_KEY_IN2
VTR_KEY_IN4
VTR_KEY_IN5
TALLY_F_LED
VTR_SCAN2
VTR_KEY_IN6
S5V
REMOCON
TALLY_B_LED
E_B_OUT
E_G_OUT
DGND
TO VTR
P552
VJS3826C024
D_GND 1
D_GND 2
R_TALLY_LED 3
REMOCON 4
S5V 5
CAM_SCAN2 6
VTR_KEYIN6 7
VTR_SCAN2 8
MIC_GND 9
MIC_L 10
MIC_GND 11
MIC_GND 12
MIC_R 13
MIC_GND 14
REGA5V 15
D_GND 16
F_TALLY_LED 17
S5V 18
F_REMOCON 19
CAM_KEYIN1 20
CAM_KEYIN2 21
CAM_SCAN1 22
D_GND 23
D_GND 24
TALLY_B_LED
REMOCON
S5V
CAM_SCAN2
VTR_KEY_IN6
VTR_SCAN2
REGA5V
TALLY_F_LED
REMOCON
CAM_KEYIN1
CAM_KEYIN2
CAM_SCAN1
TO HANDLE2
DGND
P556
K1KA04B00137
1 MIC_L
2 MIC_GND
3 MIC_R
4 MIC_GND
TO R SIDE
P553
K1MN12B00105
VJS3801D012
D_GND 1
D_GND 2
D_GND 3
VTR_KEYIN4 4
VTR_KEYIN1 5
VTR_SCAN2 6
VTR_KEYIN5 7
VTR_KEYIN2 8
D_GND 9
D_GND 10
D_GND 11
D_GND 12
VTR_KEY_IN4
VTR_KEY_IN1
VTR_SCAN2
VTR_KEY_IN5
VTR_KEY_IN2
DGND
R551
PAT/J3
R552
PAT/J3
U551
P557
K1KA80A00098
A NO B
CAM-8V 1 A_GND
CAM15V 2 A_GND
CAMNOREG 3 A_GND
A3V2 4 A_GND
A3V2 5 A_GND
REGA5V 6 A_GND
REGA5V 7 D_GND
REG3R1V 8 D_GND
REG3R1V 9 D_GND
REGD1R8V 10 D_GND
REGD1R8V 11 D_GND
REGD3V 12 D_GND
REGD3V 13 D_GND
INV 14 INH
D_GND 15 D_GND
YSI0 16 CSI0
YSI1 17 CSI1
YSI2 18 CSI2
YSI3 19 CSI3
YSI4 20 CSI4
YSI5 21 CSI5
YSI6 22 CSI6
YSI7 23 CSI7
5FP2 24 24P_RESET
CLK45 25 CLK135
D_GND 26 D_GND
CAM_TDO 27 TCK
CAM_TDI 28 TMS
RTN_FLD 29 CAM_RTN
REMOTE_WT 30 CAM_RST
RSV2 31 C_V_DATA
SS_DET 32 V_C_DATA
CAM0 33 CAM_SCLK
VTR_T 34 CAMD3OFF
D_GND 35 CAMSCAN1
IROUT 36 CAMSCAN2
ZOOMAD 37 CAMKEY1
ZOOMVREF 38 CAMKEY2
D_GND 39 D_GND
NOREGGND 40 NOREGGND
CAM-8V
CAM15V
NOREG
A3V2
REGA5V
REGD3R4V
REGD1R8V
REGD3V
INV1
YDATA10
YDATA11
YDATA12
YDATA13
YDATA14
YDATA15
YDATA16
YDATA17
5FP2
CLK45
CAM_TDO
CAM_TDI
RTN_FLD
REMOTE_WT
REMOTE_SS
SS_DET
CAM0
VTR_T
IROUT
ZOOM_AD
ZOOM_VREF
NOREG_GND
AGND
INH1
CDATA10
CDATA11
CDATA12
CDATA13
CDATA14
CDATA15
CDATA16
CDATA17
24P_RESET
CLK135
TCK
TMS
CAM_RTN
CAM_RST
C_V_DATA
V_C_DATA
CAM_SCK
CAM_D30FF
CAM_SCAN1
CAM_SCAN2
CAM_KEYIN1
CAM_KEYIN2
DGND
TO CAMERA
DGND
P559
K1MN18A00026
1 BLD
2 NOREGGND
3 NOREGGND
4 E BL 5V
5 E BL 5V
6 EVF12V
7 GND
8 V ST
9 V CK
10 EN
11 EVF ON H
12 H ST
13 H CK2
14 H CK1
15 E B OUT
16 E R OUT
17 E G OUT
18 E COM
BLD
NOREG_GND
E_BL_5V
EVF12V
DGND
VST
VCK
EN
EVF_ON_H
HST
HCK2
HCK1
E_B_OUT
E_R_OUT
E_G_OUT
E_COM
TO EVF
Ref No. 551-600Series.

COMPONENT NAME	VC_CONNECT		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP000Y3B		KR0S14 (1/1) (0)	
		SCM030	


TO POWER_SW
P253
CN_10FLH-SM1-TB
D_GND 10
EJECT_L 9
ZOOM_VREF 8
ZOOM_AD 7
VTR_SCAN3 6
VTR_KEYIN5 5
POWER_SW 4
VTR_KEYIN6 3
VTR_SCAN2 2
D_GND 1
TO R_JACK
P252
CN_VJS3801D016
D_GND 16
HP_R 15
D_GND 14
HP_L 13
CAS_LID_OPEN 12
HP_DET_L 11
CR_POWER 10
BT5V 9
5PDIO 8
VBUS 7
5P_CLK 6
USB+ 5
USB- 4
REMOTE_SS 3
REMOTE_WT 2
GND 1
TO VTR
K1KB30A00128
P251 52465-3091
A NO B
D_GND 1 D_GND
EJECT_L 2 ZOOM_VREF
ZOOM_AD 3 SCAN3
KEYIN5 4 POWER_SW
KEYIN6 5 SCAN2
D_GND 6 D_GND
HP_R 7 D_GND
HP_L 8 CAS_LID_OPEN
HPDET_L 9 CR_POWER
BT5V 10 BT5V
5PDIO 11 VBUS
5PCLK 12 D_GND
USB+ 13 USB-
REMOTE_SS 14 REMOTE_WT
D_GND 15 D_GND

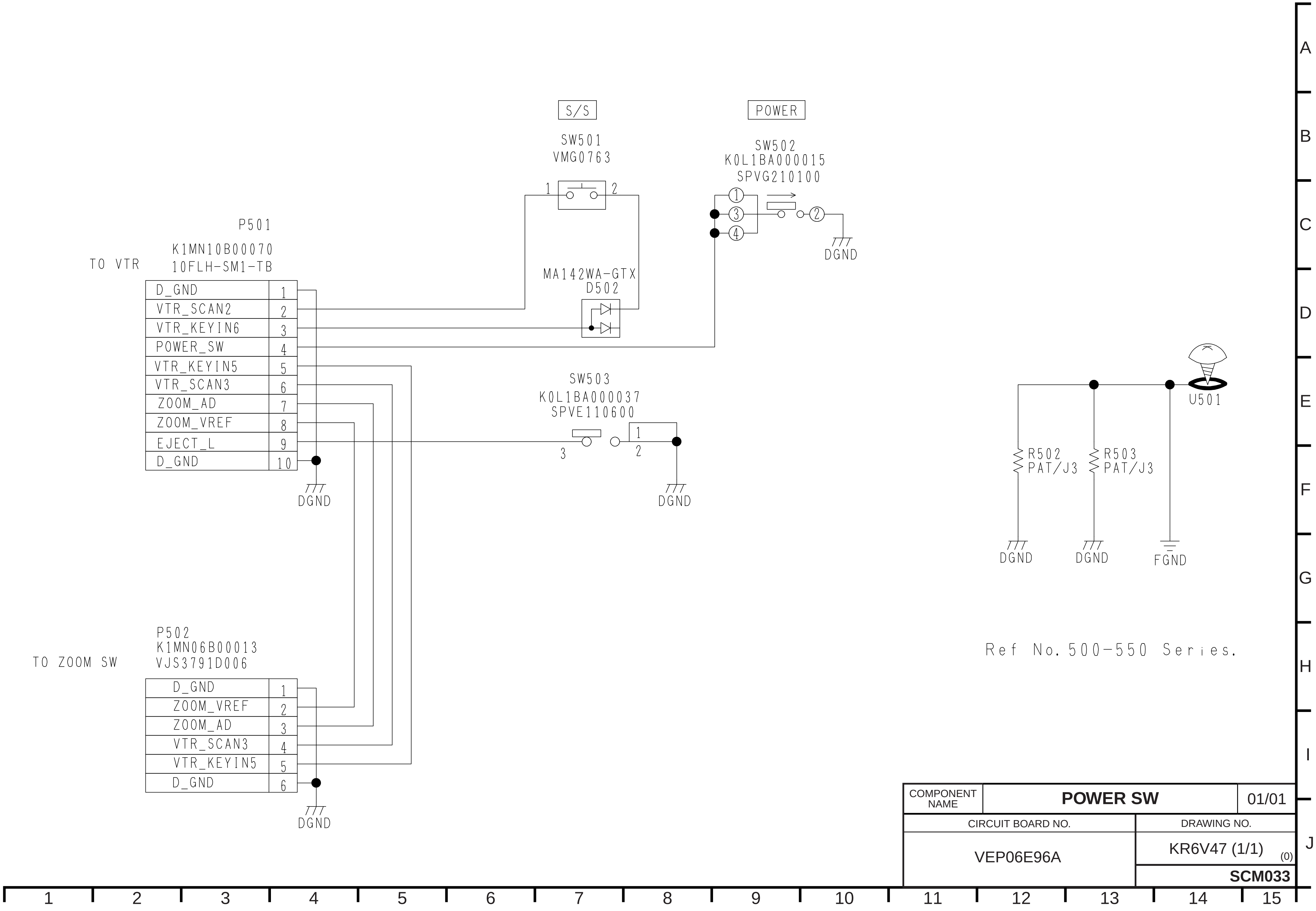
Ref No.251-299 Series.

COMPONENT NAME	REAR JACK CONNECT FLEX	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000Y6A	KR0S33 (1/1) (0)	
	SCM031	

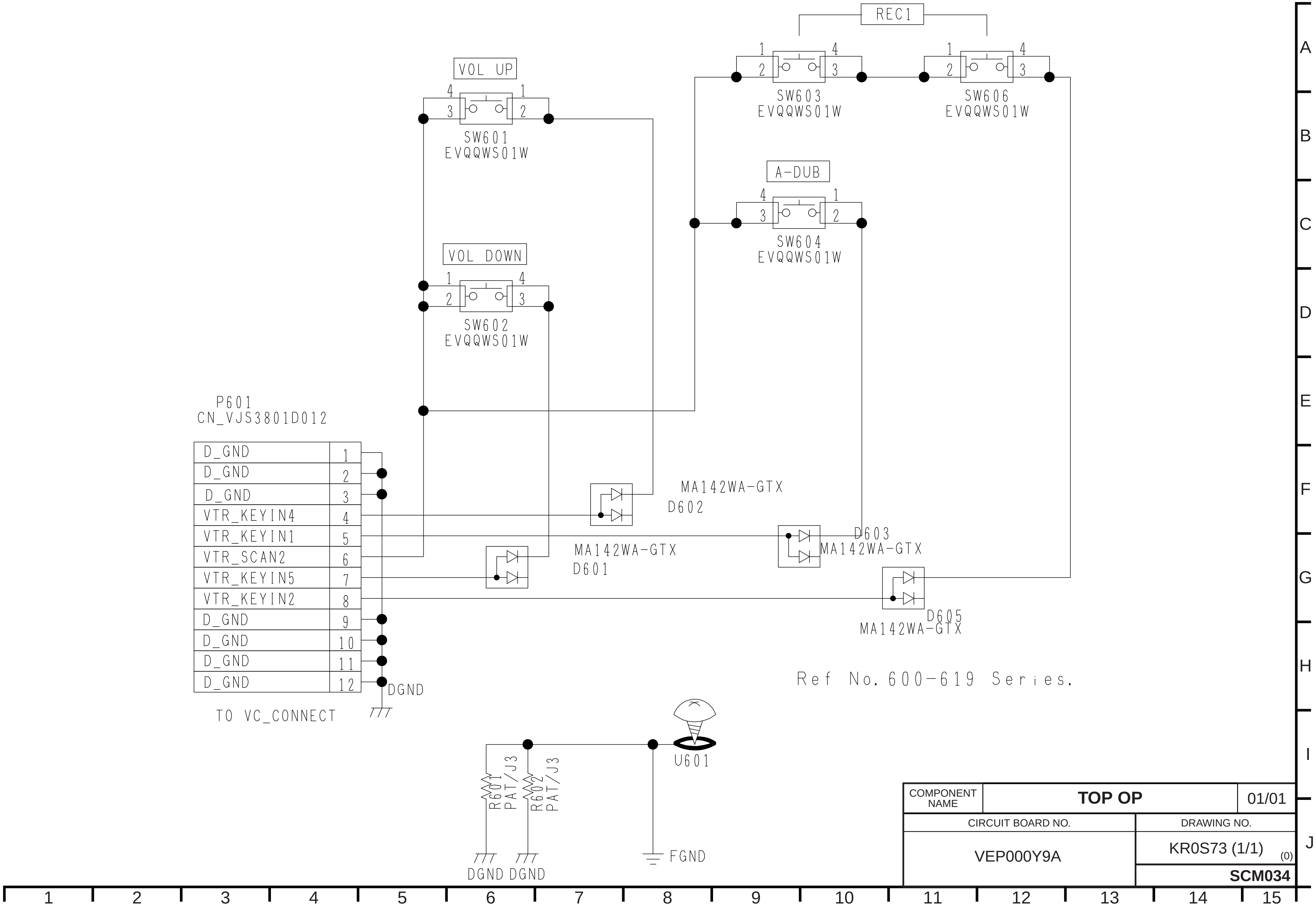

P49011
K1KA02A00237
BM02B-SRSS-TBT
CAS_LID_OPEN 1
D_GND 2
P49012
K1MN16B00112
D_GND 16
HP_R 15
D_GND 14
HP_L 13
CAS_LID_OPEN 12
HP_DET_L 11
CR_POWER 10
BT5V 9
5PDIO 8
VBUS 7
5P_CLK 6
USB+ 5
USB- 4
REMOTE_SS 3
REMOTE_WT 2
GND 1
R49015
0/J3
R49016
0/J3
R49014
0/J3
D49012
PAT/MA3062-MTX
F_GND_1
C49011
47K/J3
C49012
47K/J3
L49012
PAT/LD
L49013
VLF1315A102T
L49014
VLF1315A102T
L49015
PAT/LD
C49014
PAT/UFV
C49015
PAT/UFV
R49025
PAT/J3
F_GND_1
J49012
VJJ0522
1
3
10
2
4
5
6
H.PHONE
DGND
C49018
PAT/0.047/UBV
L49011
PAT/4R7U
C49013
PAT/16V22
DGND
R49017
PAT/J3
L49016
PAT/J0MAB0000110
R49018
PAT/J3
L49017 PAT/J0JCC0000091
L49018 PAT/FBMH1608HM151-T
R49026 PAT/J3
L49019 PAT/J0JCC0000091
L49020 PAT/J0JCC0000091
L49021 PAT/J0JCC0000091
R49027 PAT/J3
D49013
PAT/D4ED1220A006
D49014
PAT/D4ED1220A006
D49015
PAT/D4ED1220A006
DGND
DGND
DGND
J49011
PAT/K2HZ108B0003
GND
GND
8 4 7 3 6 2 5 1
R49029
PAT/J3
DGND
USB/MINI
SYSTEM
R49030
PAT/J3
R49011
0/J3
D49011
PAT/MA3062-MTX
DGND
F_GND_1
R49022
PAT/J3
R49023
PAT/J3
T49012
VLF1394
C49016
PAT/UFV
C49017
PAT/UFV
R49024
PAT/J3
R49028
PAT/J3
F_GND_2
J49013
VJJ0182
1 G1
3 R1
2 L1
REMOTE
U49011
U49012
F_GND_1
F_GND_2
R49012
0/J3
R49013
0/J3
DGND
DGND

Ref No.49000 Series.

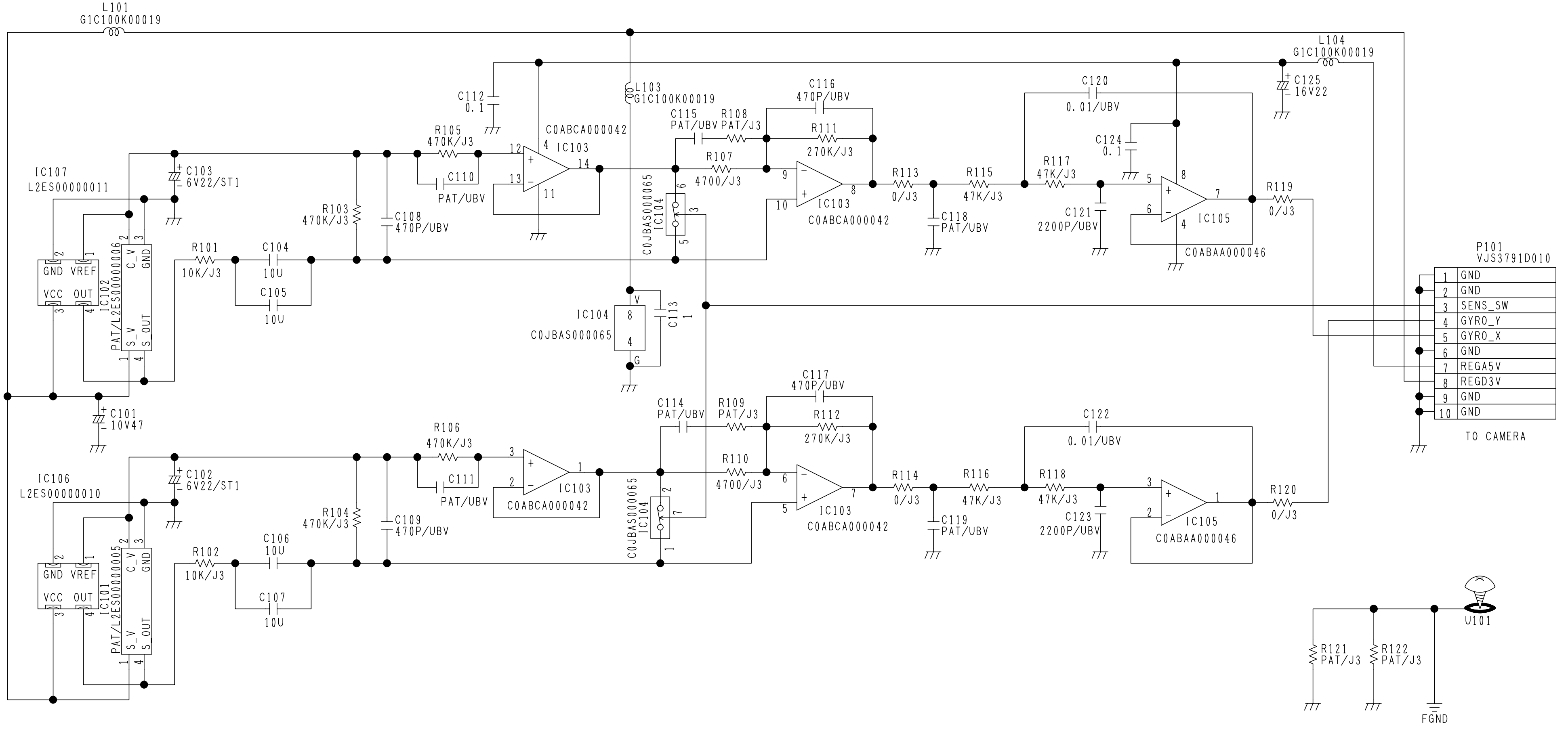
COMPONENT NAME	REAR JACK		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP04819A		KR4L04 (1/1) (1)	
		SCM032	


S/S
SW501
VMG0763
1
2
POWER
SW502
K0L1BA000015
SPVG210100
①
③
④
②
DGND
P501
K1MN10B00070
10FLH-SM1-TB
TO VTR
D_GND 1
VTR_SCAN2 2
VTR_KEYIN6 3
POWER_SW 4
VTR_KEYIN5 5
VTR_SCAN3 6
ZOOM_AD 7
ZOOM_VREF 8
EJECT_L 9
D_GND 10
DGND
MA142WA-GTX
D502
SW503
K0L1BA000037
SPVE110600
3
1
2
DGND
U501
R502
PAT/J3
R503
PAT/J3
DGND
DGND
FGND
Ref No.500-550 Series.
P502
K1MN06B00013
VJS3791D006
TO ZOOM SW
D_GND 1
ZOOM_VREF 2
ZOOM_AD 3
VTR_SCAN3 4
VTR_KEYIN5 5
D_GND 6
DGND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	POWER SW	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06E96A	KR6V47 (1/1) (0)	
	SCM033	

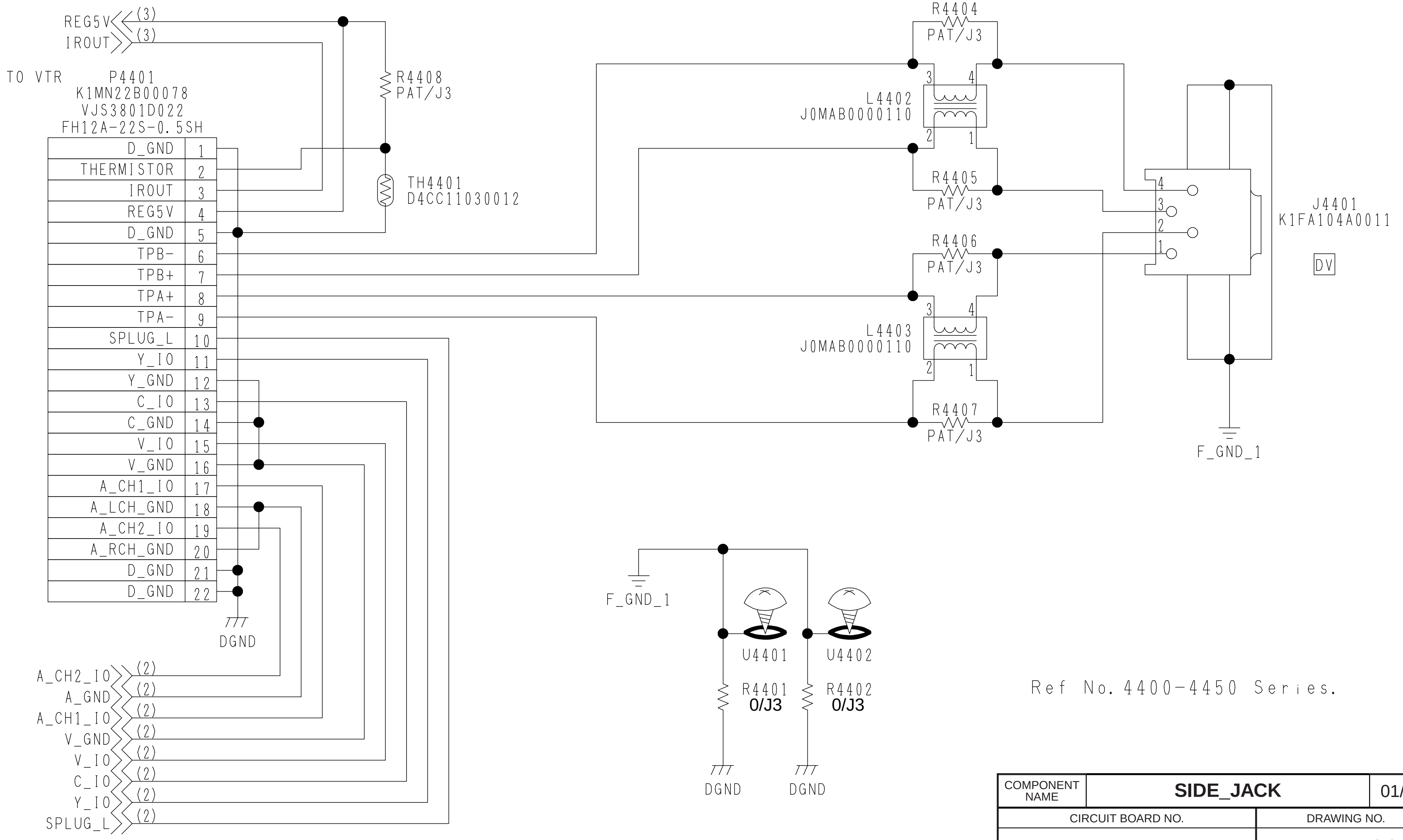

REC1
SW603
EVQQWS01W
SW606
EVQQWS01W
VOL UP
SW601
EVQQWS01W
A-DUB
SW604
EVQQWS01W
VOL DOWN
SW602
EVQQWS01W
P601
CN_VJS3801D012
D_GND 1
D_GND 2
D_GND 3
VTR_KEYIN4 4
VTR_KEYIN1 5
VTR_SCAN2 6
VTR_KEYIN5 7
VTR_KEYIN2 8
D_GND 9
D_GND 10
D_GND 11
D_GND 12
DGND
TO VC_CONNECT
MA142WA-GTX
D602
MA142WA-GTX
D601
D603
MA142WA-GTX
D605
MA142WA-GTX
Ref No. 600-619 Series.
U601
R601
PAT/J3
R602
PAT/J3
DGND DGND
FGND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	TOP OP	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000Y9A	KR0S73 (1/1) (0)	
	SCM034	

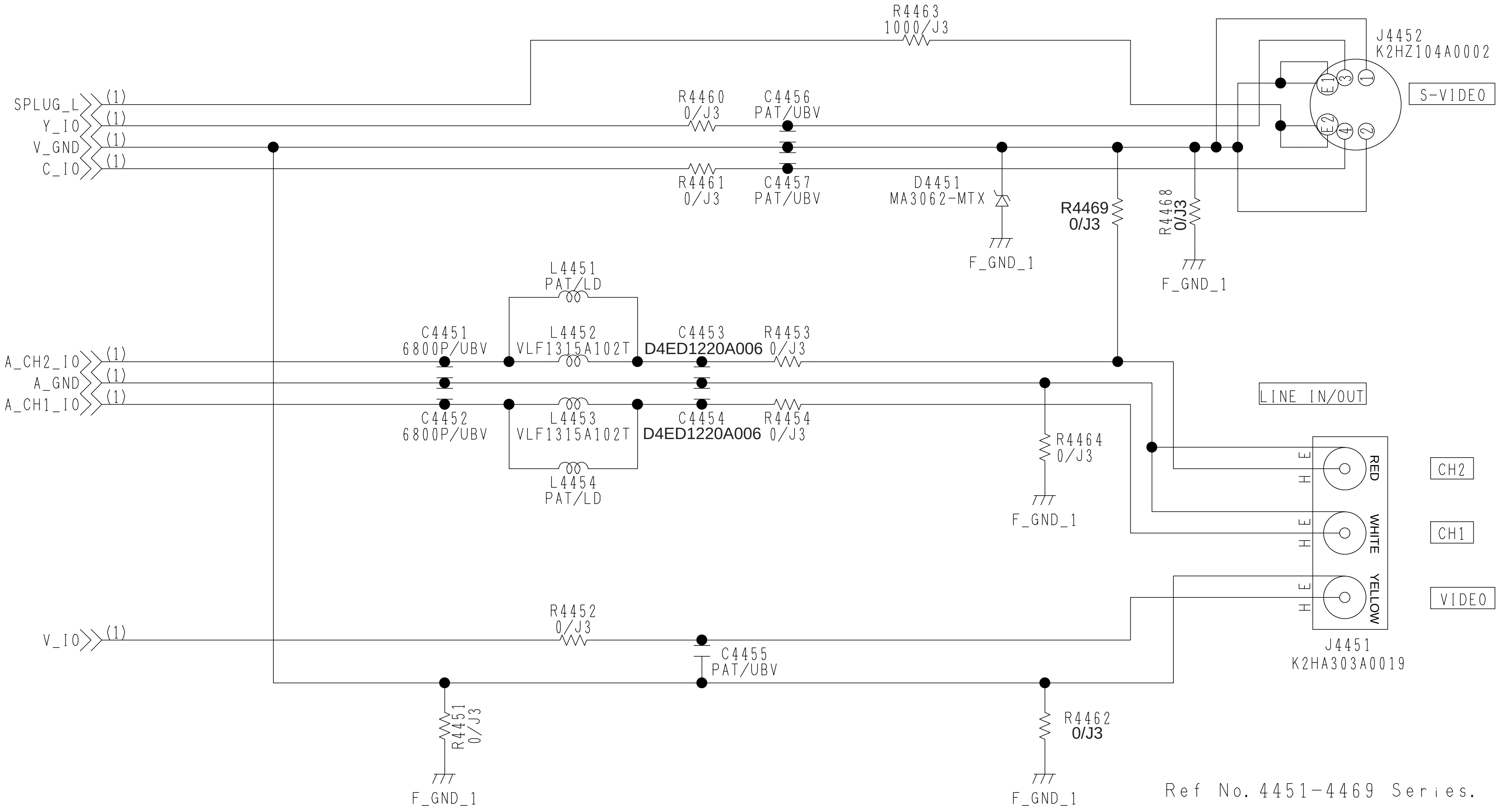

L101
G1C100K00019
L104
G1C100K00019
C125
16V22
L103
G1C100K00019
C112
0.1
C0ABCA000042
IC103
C116
470P/UBV
C115
PAT/UBV
R108
PAT/J3
R111
270K/J3
R107
4700/J3
C120
0.01/UBV
C124
0.1
R105
470K/J3
C110
PAT/UBV
IC107
L2ES00000011
C103
6V22/ST1
R113
0/J3
R115
47K/J3
R117
47K/J3
C121
2200P/UBV
C118
PAT/UBV
IC105
C0ABAA000046
R119
0/J3
R103
470K/J3
C108
470P/UBV
C0JBAS000065
IC104
R101
10K/J3
C104
10U
C105
10U
IC102
PAT/L2ES00000006
GND
VREF
VCC
OUT
C_V
S_V
S_OUT
P101
VJS3791D010
1 GND
2 GND
3 SENS_SW
4 GYRO_Y
5 GYRO_X
6 GND
7 REGA5V
8 REGD3V
9 GND
10 GND
TO CAMERA
IC104
C0JBAS000065
C113
1
C101
10V47
C117
470P/UBV
C114
PAT/UBV
R109
PAT/J3
R112
270K/J3
R106
470K/J3
C111
PAT/UBV
R110
4700/J3
C122
0.01/UBV
IC106
L2ES00000010
C102
6V22/ST1
R114
0/J3
R116
47K/J3
R118
47K/J3
C123
2200P/UBV
C119
PAT/UBV
R120
0/J3
R104
470K/J3
C109
470P/UBV
R102
10K/J3
C106
10U
C107
10U
IC101
PAT/L2ES00000005
U101
R121
PAT/J3
R122
PAT/J3
FGND

Ref No.100 Series.

COMPONENT NAME	GYRO	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP22351A	KR2A0016 (1/1) (0)	
	SCM035	

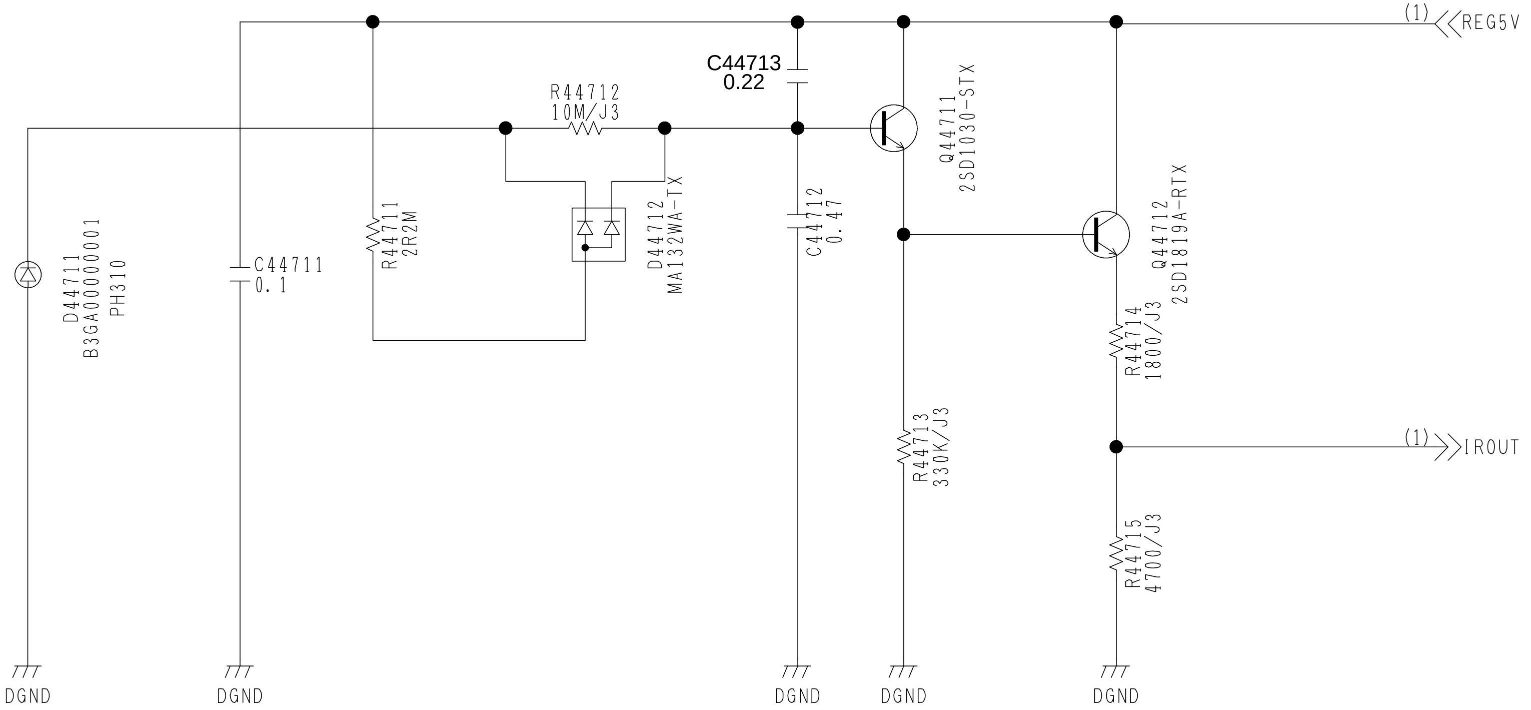

REG5V (3)
IROUT (3)
TO VTR
P4401
K1MN22B00078
VJS3801D022
FH12A-22S-0.5SH
D_GND 1
THERMISTOR 2
IROUT 3
REG5V 4
D_GND 5
TPB- 6
TPB+ 7
TPA+ 8
TPA- 9
SPLUG_L 10
Y_IO 11
Y_GND 12
C_IO 13
C_GND 14
V_IO 15
V_GND 16
A_CH1_IO 17
A_LCH_GND 18
A_CH2_IO 19
A_RCH_GND 20
D_GND 21
D_GND 22
DGND
R4408
PAT/J3
TH4401
D4CC11030012
R4404
PAT/J3
L4402
J0MAB0000110
3
4
2
1
R4405
PAT/J3
R4406
PAT/J3
L4403
J0MAB0000110
3
4
2
1
R4407
PAT/J3
4
3
2
1
J4401
K1FA104A0011
DV
F_GND_1
A_CH2_IO (2)
A_GND (2)
A_CH1_IO (2)
V_GND (2)
V_IO (2)
C_IO (2)
Y_IO (2)
SPLUG_L (2)
F_GND_1
U4401
U4402
R4401
0/J3
R4402
0/J3
DGND
DGND
Ref No. 4400-4450 Series.
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	**SIDE_JACK**	01/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04858A	KR4A0022 (1/3) (0)	
	SCM036	


SPLUG_L (1)
Y_IO (1)
V_GND (1)
C_IO (1)
R4463
1000/J3
R4460
0/J3
C4456
PAT/UBV
R4461
0/J3
C4457
PAT/UBV
D4451
MA3062-MTX
F_GND_1
R4469
0/J3
R4468
0/J3
F_GND_1
J4452
K2HZ104A0002
E1
3
1
E2
4
2
S-VIDEO
L4451
PAT/LD
C4451
6800P/UBV
L4452
VLF1315A102T
C4453
D4ED1220A006
R4453
0/J3
A_CH2_IO (1)
A_GND (1)
A_CH1_IO (1)
C4452
6800P/UBV
L4453
VLF1315A102T
C4454
D4ED1220A006
R4454
0/J3
L4454
PAT/LD
R4464
0/J3
F_GND_1
LINE IN/OUT
RED
WHITE
YELLOW
H
E
CH2
CH1
VIDEO
J4451
K2HA303A0019
V_IO (1)
R4452
0/J3
C4455
PAT/UBV
R4451
0/J3
F_GND_1
R4462
0/J3
F_GND_1
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

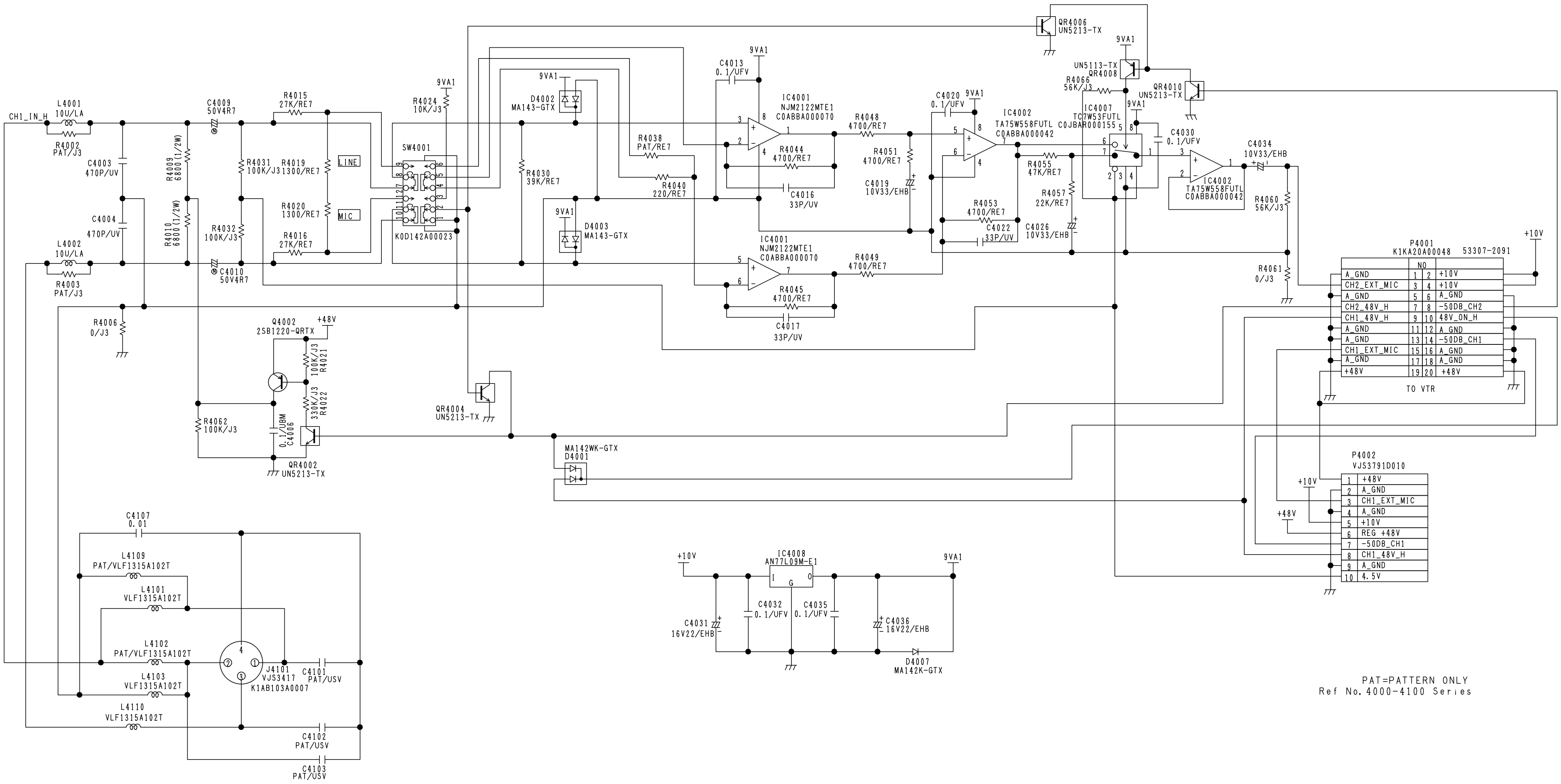
Ref No. 4451-4469 Series.

COMPONENT NAME	SIDE_JACK	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04858A	KR4A0022 (2/3) (0)	
	SCM037	


(1) REG5V
C44713
0.22
R44712
10M/J3
Q44711
2SD1030-STX
Q44712
2SD1819A-RTX
D44712
MA132WA-TX
R44711
2R2M
C44712
0.47
C44711
0.1
D44711
B3GA00000001
PH310
R44714
1800/J3
(1) IROUT
R44713
330K/J3
R44715
4700/J3
DGND
DGND
DGND
DGND
DGND

Ref No. 4470-4500 Series

COMPONENT NAME	**SIDE_JACK**	03/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04858A	KR4A0022 (3/3) (0)	
	SCM038	


CH1_IN_H
L4001 10U/LA
R4002 PAT/J3
C4003 470P/UV
C4004 470P/UV
L4002 10U/LA
R4003 PAT/J3
R4006 0/J3
C4009 50V4R7
C4010 50V4R7
R4009 6800(1/2W)
R4010 6800(1/2W)
R4015 27K/RE7
R4031 100K/J3
R4019 1300/RE7
R4020 1300/RE7
R4032 100K/J3
R4016 27K/RE7
LINE
MIC
R4024 10K/J3
9VA1
SW4001
K0D142A00023
D4002 MA143-GTX
D4003 MA143-GTX
R4030 39K/RE7
R4038 PAT/RE7
R4040 220/RE7
C4013 0.1/UFV
IC4001 NJM2122MTE1 C0ABBA000070
R4044 4700/RE7
C4016 33P/UV
R4045 4700/RE7
C4017 33P/UV
R4048 4700/RE7
R4049 4700/RE7
R4051 4700/RE7
C4019 10V33/EHB
C4020 0.1/UFV
IC4002 TA75W558FUTL C0ABBA000042
R4053 4700/RE7
C4022 33P/UV
R4055 47K/RE7
R4057 22K/RE7
C4026 10V33/EHB
QR4006 UN5213-TX
QR4008 UN5113-TX
R4066 56K/J3
QR4010 UN5213-TX
IC4007 TC7W53FUTL C0JBAR000155
C4030 0.1/UFV
C4034 10V33/EHB
R4060 56K/J3
R4061 0/J3
P4001 K1KA20A00048 53307-2091
TO VTR
Q4002 2SB1220-QRTX
+48V
R4021 100K/J3
R4022 330K/J3
R4062 100K/J3
C4006 0.1/UBM
QR4002 UN5213-TX
QR4004 UN5213-TX
D4001 MA142WK-GTX
P4002 VJS3791D010
+10V
C4107 0.01
L4109 PAT/VLF1315A102T
L4101 VLF1315A102T
L4102 PAT/VLF1315A102T
L4103 VLF1315A102T
L4110 VLF1315A102T
J4101 VJS3417 K1AB103A0007
C4101 PAT/USV
C4102 PAT/USV
C4103 PAT/USV
IC4008 AN77L09M-E1
C4031 16V22/EHB
C4032 0.1/UFV
C4035 0.1/UFV
C4036 16V22/EHB
D4007 MA142K-GTX

P4001

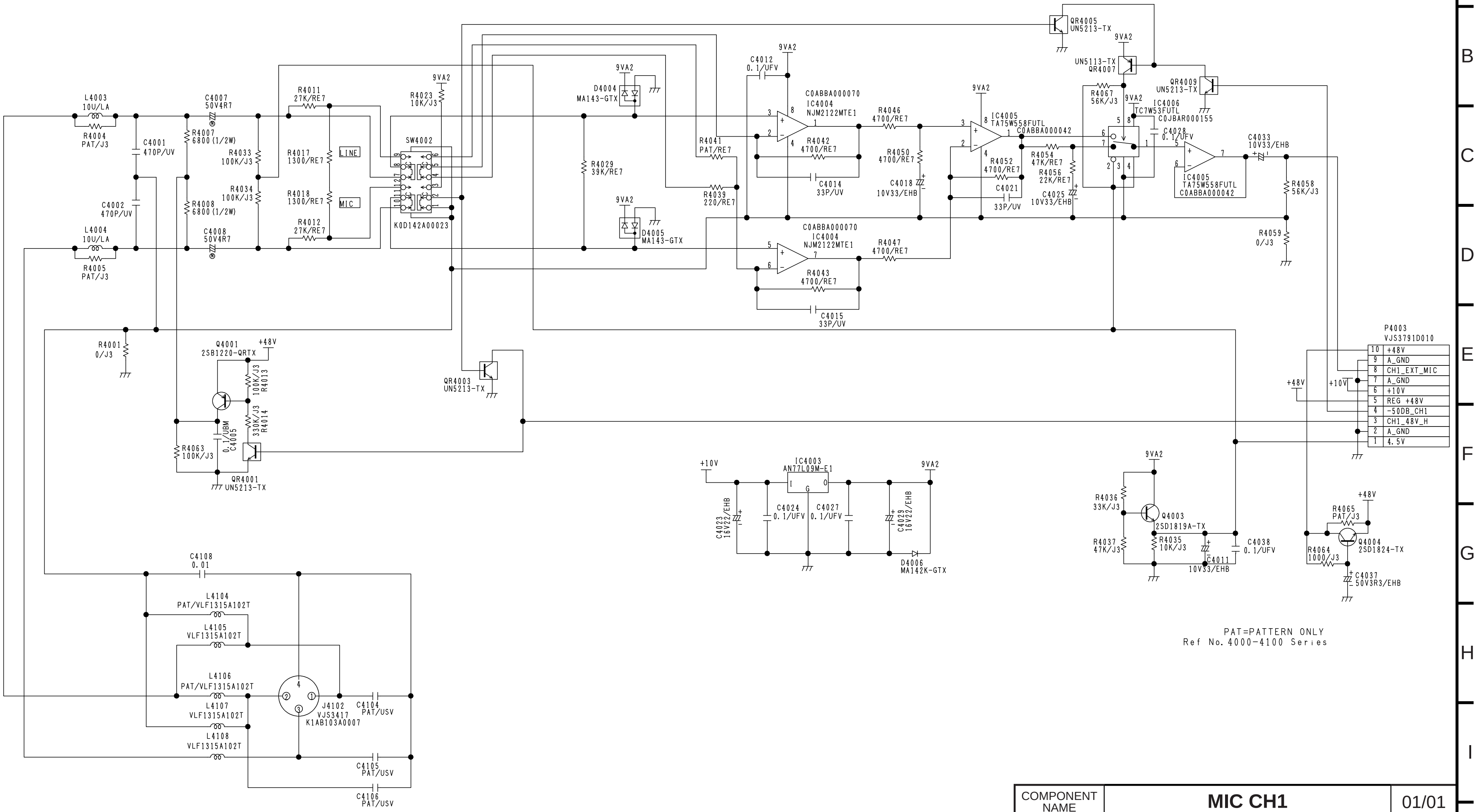
NO			
A_GND	1	2	+10V
CH2_EXT_MIC	3	4	+10V
A_GND	5	6	A_GND
CH2_48V_H	7	8	-50DB_CH2
CH1_48V_H	9	10	48V_ON_H
A_GND	11	12	A_GND
A_GND	13	14	-50DB_CH1
CH1_EXT_MIC	15	16	A_GND
A_GND	17	18	A_GND
+48V	19	20	+48V

P4002

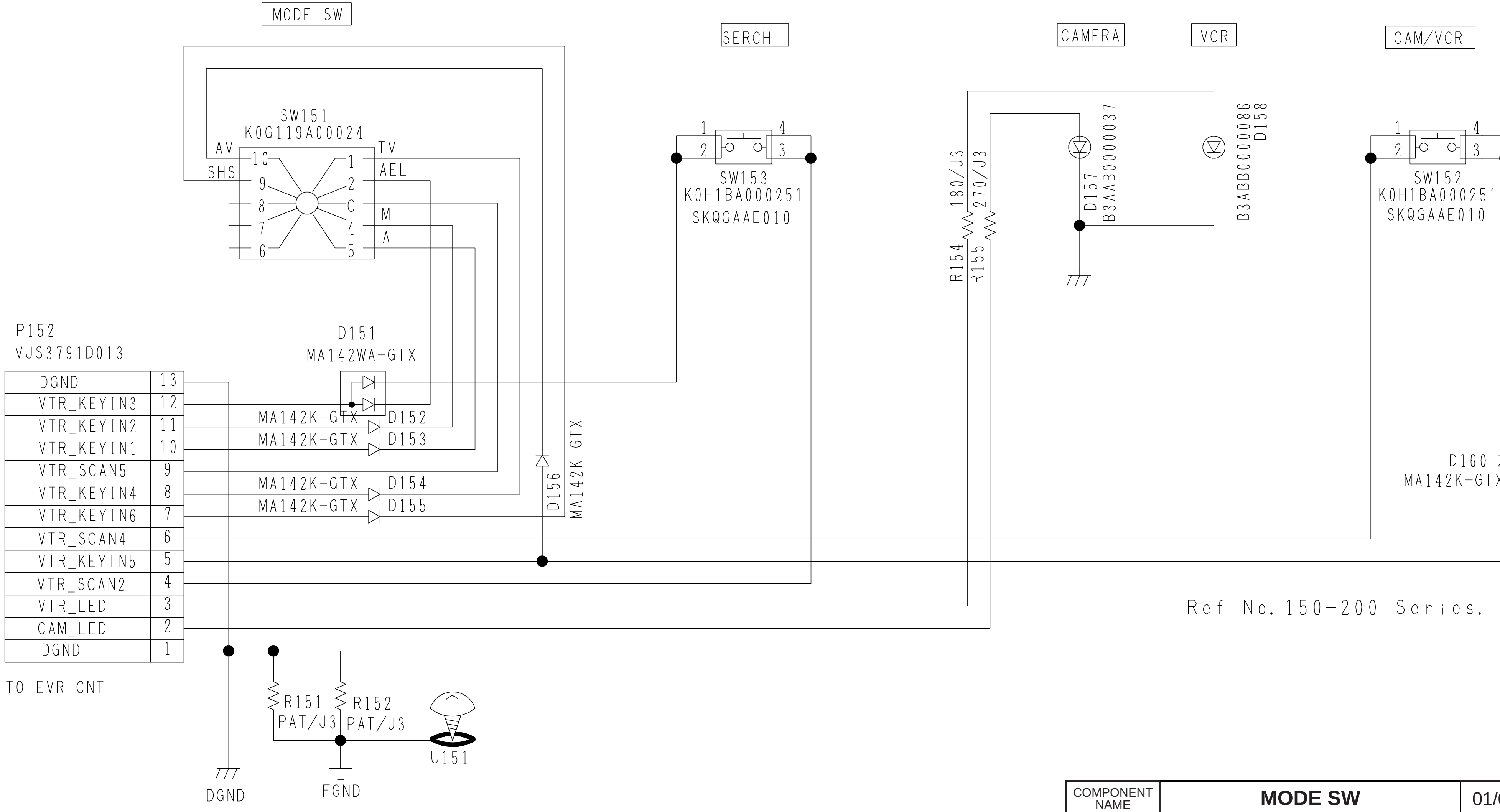
1	+48V
2	A_GND
3	CH1_EXT_MIC
4	A_GND
5	+10V
6	REG +48V
7	-50DB_CH1
8	CH1_48V_H
9	A_GND
10	4.5V

PAT=PATTERN ONLY
Ref No.4000-4100 Series

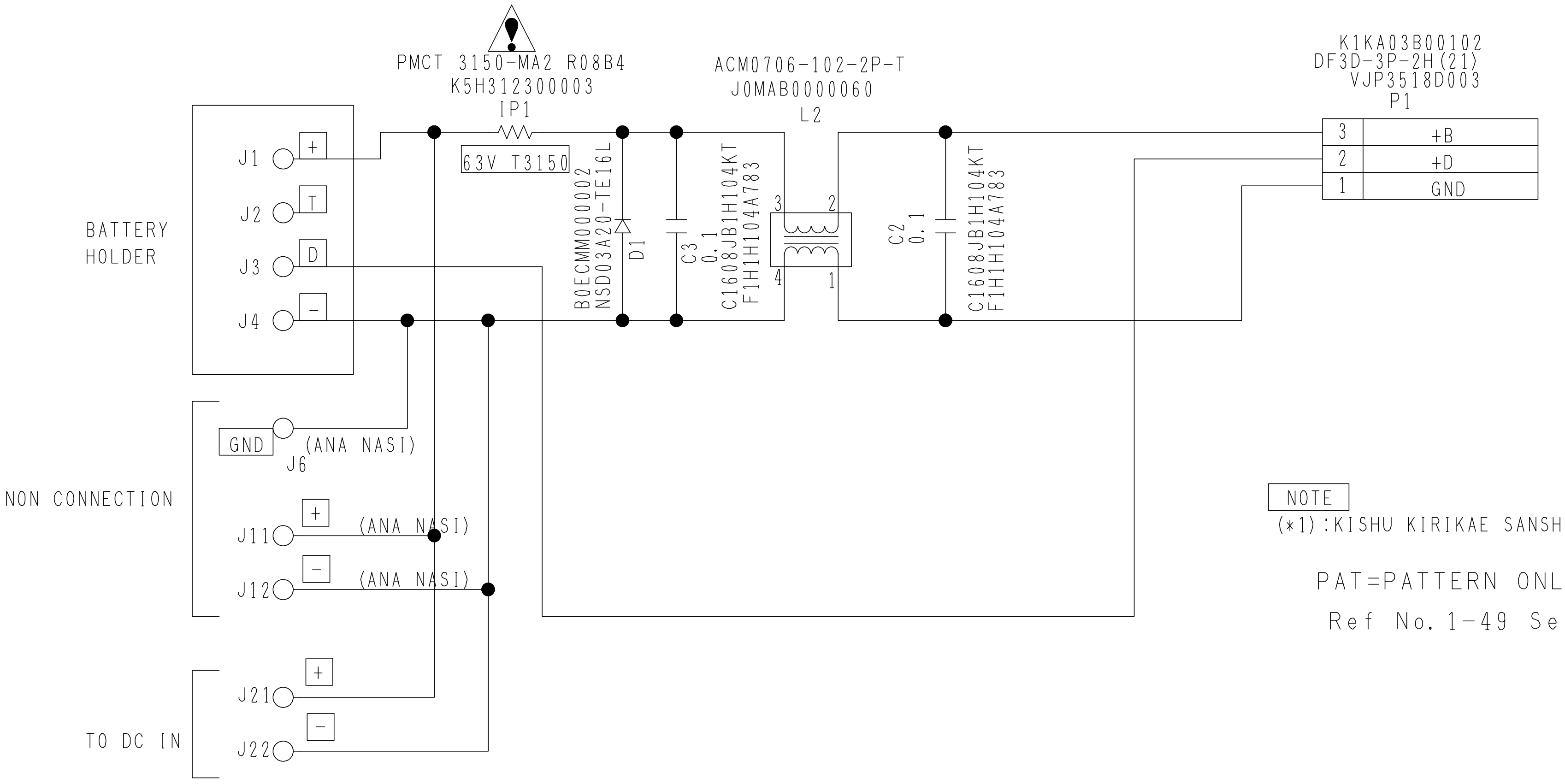
COMPONENT NAME	MIC CH2		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP04815A		KR4K95 (1/1) (0)	
		SCM039	


L4003 10U/LA
R4004 PAT/J3
C4007 50V4R7
C4001 470P/UV
R4007 6800(1/2W)
C4002 470P/UV
R4008 6800(1/2W)
L4004 10U/LA
R4005 PAT/J3
C4008 50V4R7
R4033 100K/J3
R4034 100K/J3
R4011 27K/RE7
R4017 1300/RE7
LINE
R4018 1300/RE7
MIC
R4012 27K/RE7
9VA2
R4023 10K/J3
SW4002
K0D142A00023
D4004 MA143-GTX
R4029 39K/RE7
D4005 MA143-GTX
R4041 PAT/RE7
R4039 220/RE7
C4012 0.1/UFV
C0ABBA000070
IC4004 NJM2122MTE1
R4042 4700/RE7
C4014 33P/UV
R4046 4700/RE7
R4050 4700/RE7
C4018 10V33/EHB
R4043 4700/RE7
C4015 33P/UV
R4047 4700/RE7
IC4005 TA75W558FUTL
C0ABBA000042
R4052 4700/RE7
C4021 33P/UV
R4054 47K/RE7
R4056 22K/RE7
C4025 10V33/EHB
QR4005 UN5213-TX
UN5113-TX QR4007
R4067 56K/J3
IC4006 TC7W53FUTL
C0JBAR000155
C4028 0.1/UFV
QR4009 UN5213-TX
C4033 10V33/EHB
R4058 56K/J3
R4059 0/J3
R4001 0/J3
Q4001 2SB1220-QRTX
+48V
R4013 100K/J3
R4014 330K/J3
C4005 0.1/UBM
R4063 100K/J3
QR4001 UN5213-TX
QR4003 UN5213-TX
P4003 VJS3791D010
10 +48V
9 A_GND
8 CH1_EXT_MIC
7 A_GND
6 +10V
5 REG +48V
4 -50DB_CH1
3 CH1_48V_H
2 A_GND
1 4.5V
+10V
IC4003 AN77L09M-E1
I G O
C4023 16V22/EHB
C4024 0.1/UFV
C4027 0.1/UFV
C4029 16V22/EHB
D4006 MA142K-GTX
R4036 33K/J3
Q4003 2SD1819A-TX
R4037 47K/J3
R4035 10K/J3
C4011 10V33/EHB
C4038 0.1/UFV
R4065 PAT/J3
Q4004 2SD1824-TX
R4064 1000/J3
C4037 50V3R3/EHB
C4108 0.01
L4104 PAT/VLF1315A102T
L4105 VLF1315A102T
L4106 PAT/VLF1315A102T
L4107 VLF1315A102T
L4108 VLF1315A102T
J4102 VJS3417 K1AB103A0007
C4104 PAT/USV
C4105 PAT/USV
C4106 PAT/USV
PAT=PATTERN ONLY
Ref No.4000-4100 Series
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	**MIC CH1**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04865A	KR4L25 (1/1) (0)	
	SCM040	


MODE SW
SERCH
CAMERA
VCR
CAM/VCR
SW151
K0G119A00024
AV
SHS
TV
AEL
M
A
10
9
8
7
6
1
2
C
4
5
SW153
K0H1BA000251
SKQGAAE010
1
2
4
3
R154
180/J3
R155
270/J3
D157
B3AAB0000037
D158
B3ABB0000086
SW152
K0H1BA000251
SKQGAAE010
P152
VJS3791D013
DGND 13
VTR_KEYIN3 12
VTR_KEYIN2 11
VTR_KEYIN1 10
VTR_SCAN5 9
VTR_KEYIN4 8
VTR_KEYIN6 7
VTR_SCAN4 6
VTR_KEYIN5 5
VTR_SCAN2 4
VTR_LED 3
CAM_LED 2
DGND 1
TO EVR_CNT
D151
MA142WA-GTX
MA142K-GTX D152
MA142K-GTX D153
MA142K-GTX D154
MA142K-GTX D155
D156
MA142K-GTX
D160
MA142K-GTX
Ref No.150-200 Series.
R151
PAT/J3
R152
PAT/J3
U151
DGND
FGND

COMPONENT NAME	MODE SW		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP06E89B		KR6V40 (1/1) (0)	
		SCM041	


PMCT 3150-MA2 R08B4
K5H312300003
IP1
63V T3150
ACM0706-102-2P-T
J0MAB0000060
L2
K1KA03B00102
DF3D-3P-2H(21)
VJP3518D003
P1
3
+B
2
+D
1
GND
BATTERY
HOLDER
J1
+
J2
T
J3
D
J4
−
B0ECMM000002
NSD03A20-TE16L
D1
C3
0.1
C1608JB1H104KT
F1H1H104A783
3
2
4
1
C2
0.1
C1608JB1H104KT
F1H1H104A783
GND
(ANA NASI)
J6
NON CONNECTION
J11
+
(ANA NASI)
J12
−
(ANA NASI)
TO DC IN
J21
+
J22
−

NOTE

(*1):KISHU KIRIKAE SANSHOU

PAT=PATTERN ONLY

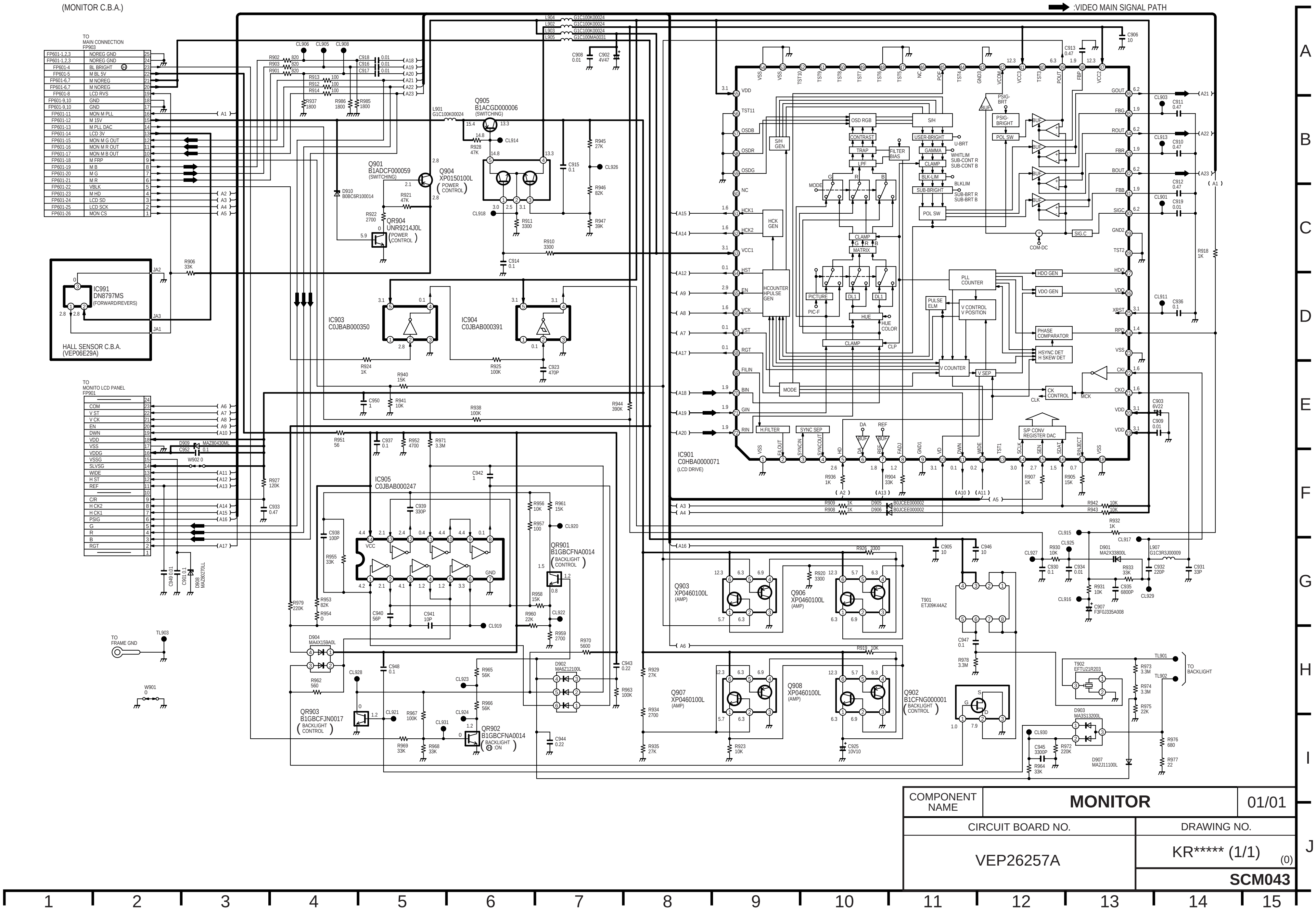
Ref No.1-49 Series.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

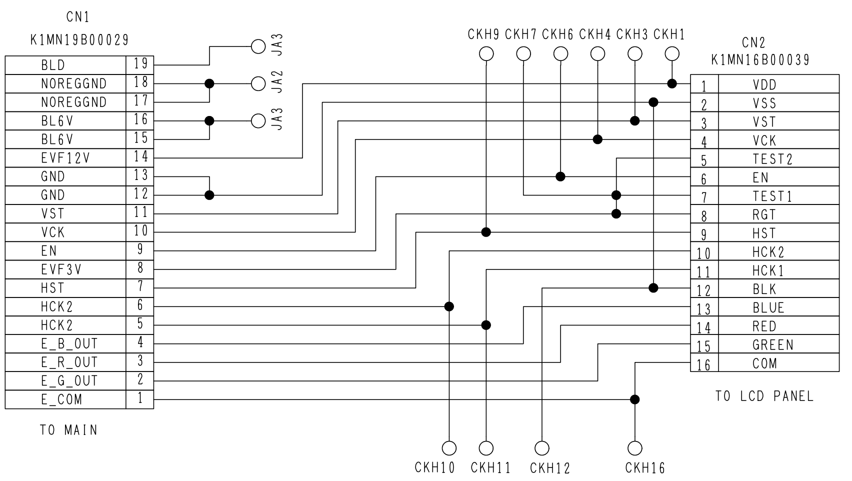
⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

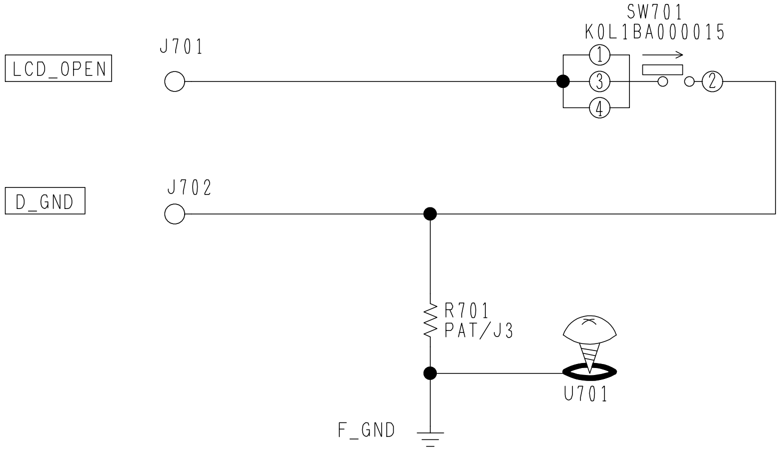
COMPONENT NAME	BATTERY	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01915B	KR1F83 (1/1) (0)	
	SCM042	


(MONITOR C.B.A.)
:VIDEO MAIN SIGNAL PATH
TO MAIN CONNECTION FP903
FP601-1,2,3 NOREG GND 25
FP601-1,2,3 NOREG GND 24
FP601-4 BL BRIGHT 23
FP601-5 M BL 5V 22
FP601-6,7 M NOREG 21
FP601-6,7 M NOREG 20
FP601-8 LCD RVS 19
FP601-9,10 GND 18
FP601-9,10 GND 17
FP601-11 MON M PLL 16
FP601-12 M 15V 15
FP601-13 M PLL DAC 14
FP601-14 LCD 3V 13
FP601-15 MON M G OUT 12
FP601-16 MON M R OUT 11
FP601-17 MON M B OUT 10
FP601-18 M FRP 9
FP601-19 M B 8
FP601-20 M G 7
FP601-21 M R 6
FP601-22 VBLK 5
FP601-23 M HD 4
FP601-24 LCD SD 3
FP601-25 LCD SCK 2
FP601-26 MON CS 1
IC991 DN8797MS (FORWARD/REVERS)
HALL SENSOR C.B.A. (VEP06E29A)
TO MONITO LCD PANEL FP901
COM 23
V ST 22
V CK 21
EN 20
DWN 19
VDD 18
VSS 17
VDDG 16
VSSG 15
SLVSG 14
WIDE 13
H ST 12
REF 11
C/R 9
H CK2 8
H CK1 7
PSIG 6
G 5
R 4
B 3
RGT 2
Q905 B1ACGD000006 (SWITCHING)
Q901 B1ADCF000059 (SWITCHING)
Q904 XP0150100L (POWER CONTROL)
QR904 UNR9214J0L (POWER CONTROL)
IC903 C0JBAB000350
IC904 C0JBAB000391
IC905 C0JBAB000247
QR901 B1GBCFNA0014 (BACKLIGHT CONTROL)
QR903 B1GBCFJN0017 (BACKLIGHT CONTROL)
QR902 B1GBCFNA0014 (BACKLIGHT ON)
TO FRAME GND
IC901 C0HBA0000071 (LCD DRIVE)
Q903 XP0460100L (AMP)
Q906 XP0460100L (AMP)
Q907 XP0460100L (AMP)
Q908 XP0460100L (AMP)
Q902 B1CFNG000001 (BACKLIGHT CONTROL)
T901 ETJ09K44AZ
T902 EFTU21R203
TO BACKLIGHT
OSD RGB
S/H
CONTRAST
TRAP
LPF
FILTER BIAS
USER-BRIGHT
GAMMA
CLAMP
BLK-LIM
SUB-BRIGHT
POL SW
MATRIX
PICTURE
HUE
PLL COUNTER
V CONTROL V POSITION
PULSE ELM
HDO GEN
VDO GEN
PHASE COMPARATOR
HSYNC DET H SKEW DET
V COUNTER
V SEP
CK CONTROL
MODE
H.FILTER
SYNC SEP
S/P CONV REGISTER DAC
HCOUNTER HPULSE GEN
HCK GEN
S/H GEN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J

COMPONENT NAME	MONITOR	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP26257A		KR***** (1/1) (0)
		SCM043

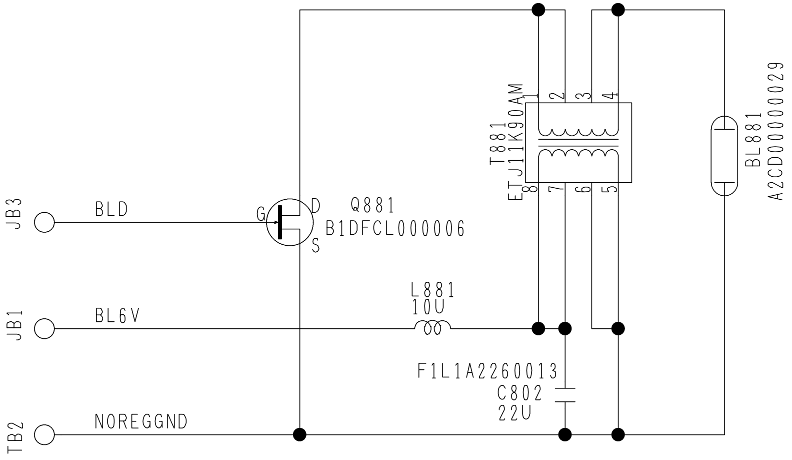

CN1
K1MN19B00029
BLD 19
NOREGGND 18
NOREGGND 17
BL6V 16
BL6V 15
EVF12V 14
GND 13
GND 12
VST 11
VCK 10
EN 9
EVF3V 8
HST 7
HCK2 6
HCK2 5
E_B_OUT 4
E_R_OUT 3
E_G_OUT 2
E_COM 1
TO MAIN
JA3
JA2
JA3
CKH9 CKH7 CKH6 CKH4 CKH3 CKH1
CN2
K1MN16B00039
1 VDD
2 VSS
3 VST
4 VCK
5 TEST2
6 EN
7 TEST1
8 RGT
9 HST
10 HCK2
11 HCK1
12 BLK
13 BLUE
14 RED
15 GREEN
16 COM
TO LCD PANEL
CKH10 CKH11 CKH12 CKH16

COMPONENT NAME	EVF_A	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28272B	KR8840 (1/1) (0) SCM044	

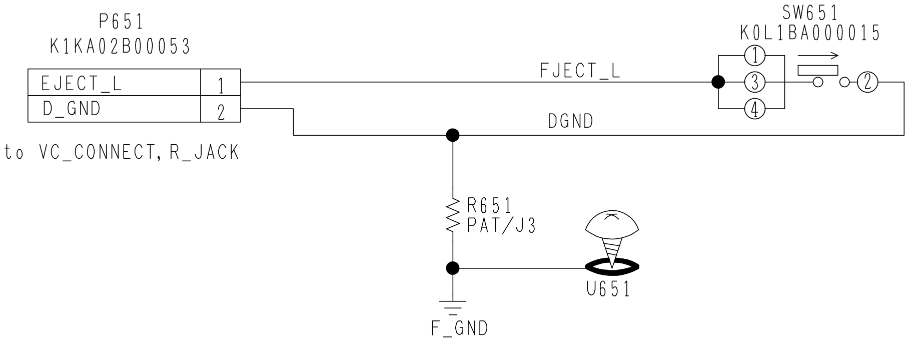

LCD_OPEN
J701
SW701
K0L1BA000015
①
③
④
②
D_GND
J702
R701
PAT/J3
U701
F_GND

Ref No. 701-709 Series.

COMPONENT NAME	LCD_OPEN_SW	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000Y4A	KR0S20 (1/1) (1) SCM044	

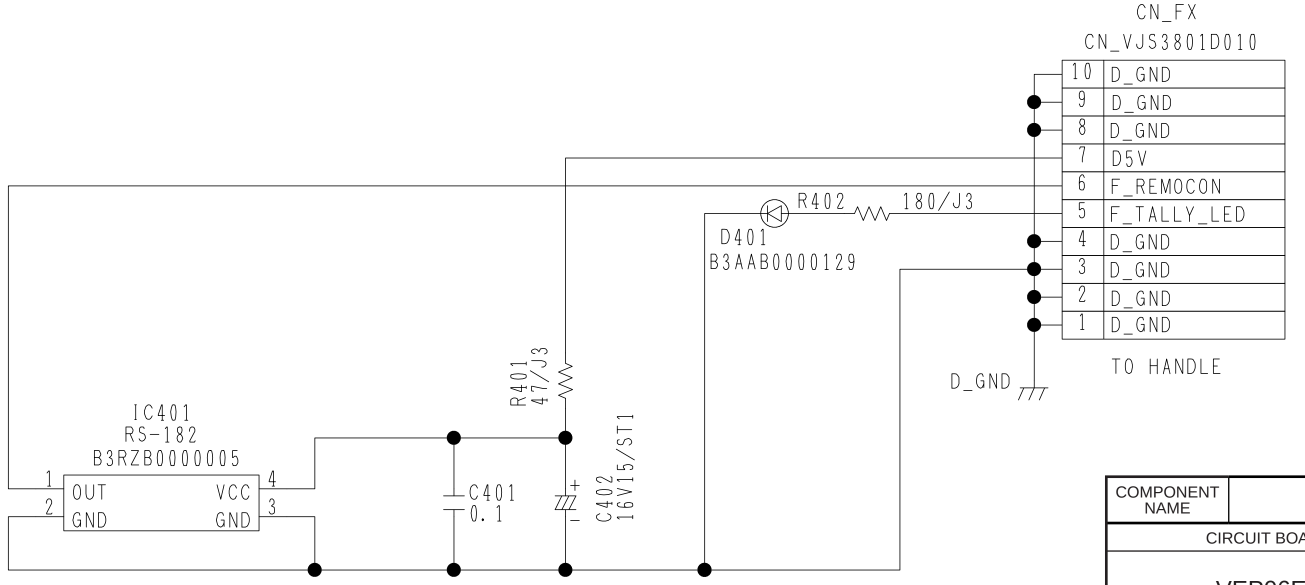

JB3
BLD
G
D
S
Q881
B1DFCL000006
T881
ETJ11K90AM
1 2 3 4
8 7 6 5
BL881
A2CD00000029
JB1
BL6V
L881
10U
F1L1A2260013
C802
22U
TB2
NOREGGND

COMPONENT NAME	EVF_B	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28275B	KR8841 (1/1) (0) SCM044	


P651
K1KA02B00053
EJECT_L 1
D_GND 2
to VC_CONNECT, R_JACK
FJECT_L
DGND
SW651
K0L1BA000015
①
③
④
②
R651
PAT/J3
U651
F_GND

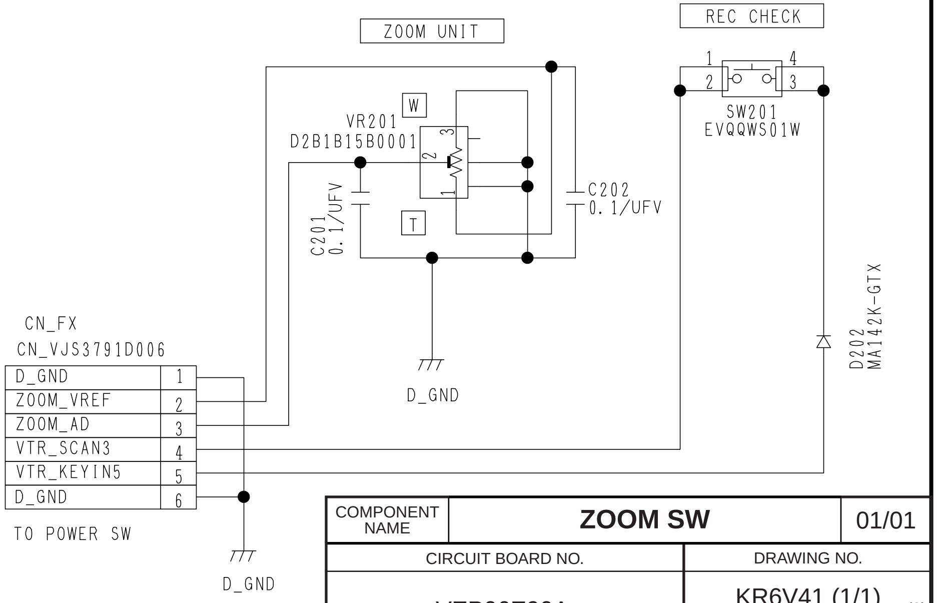
Ref No. 651-699 Series.

COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000Y7A	KR0S34 (1/1) (0) SCM044	


CN_FX
CN_VJS3801D010
10 D_GND
9 D_GND
8 D_GND
7 D5V
6 F_REMOCON
5 F_TALLY_LED
4 D_GND
3 D_GND
2 D_GND
1 D_GND
TO HANDLE
D_GND
R402 180/J3
D401
B3AAB0000129
R401
47/J3
C402
16V15/ST1
C401
0.1
IC401
RS-182
B3RZB0000005
1 OUT
2 GND
VCC 4
GND 3

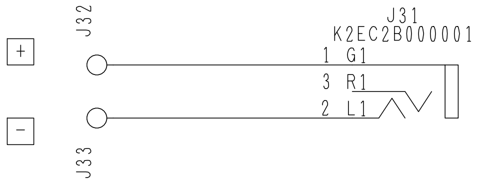
Ref No. 400-450 Series.

COMPONENT NAME	**F_TALLY**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06E94A	KR6V45 (1/1) (0)	
	SCM045	


ZOOM UNIT
REC CHECK
W
VR201
D2B1B15B0001
T
C201
0.1/UFV
C202
0.1/UFV
SW201
EVQQWS01W
D202
MA142K-GTX
D_GND
CN_FX
CN_VJS3791D006
D_GND 1
ZOOM_VREF 2
ZOOM_AD 3
VTR_SCAN3 4
VTR_KEYIN5 5
D_GND 6
TO POWER SW
D_GND

Ref No. 201-250 Series.

COMPONENT NAME	**ZOOM SW**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06E90A	KR6V41 (1/1) (0)	
	SCM045	


J32
J33
+
−
J31
K2EC2B000001
1 G1
3 R1
2 L1

Ref No. 31-49 Series

COMPONENT NAME	**DC_IN**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01923A	KR1F95 (1/1) (0)	
	SCM045	

SECTION 7

CIRCUIT BOARD DIAGRAMS

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 8

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

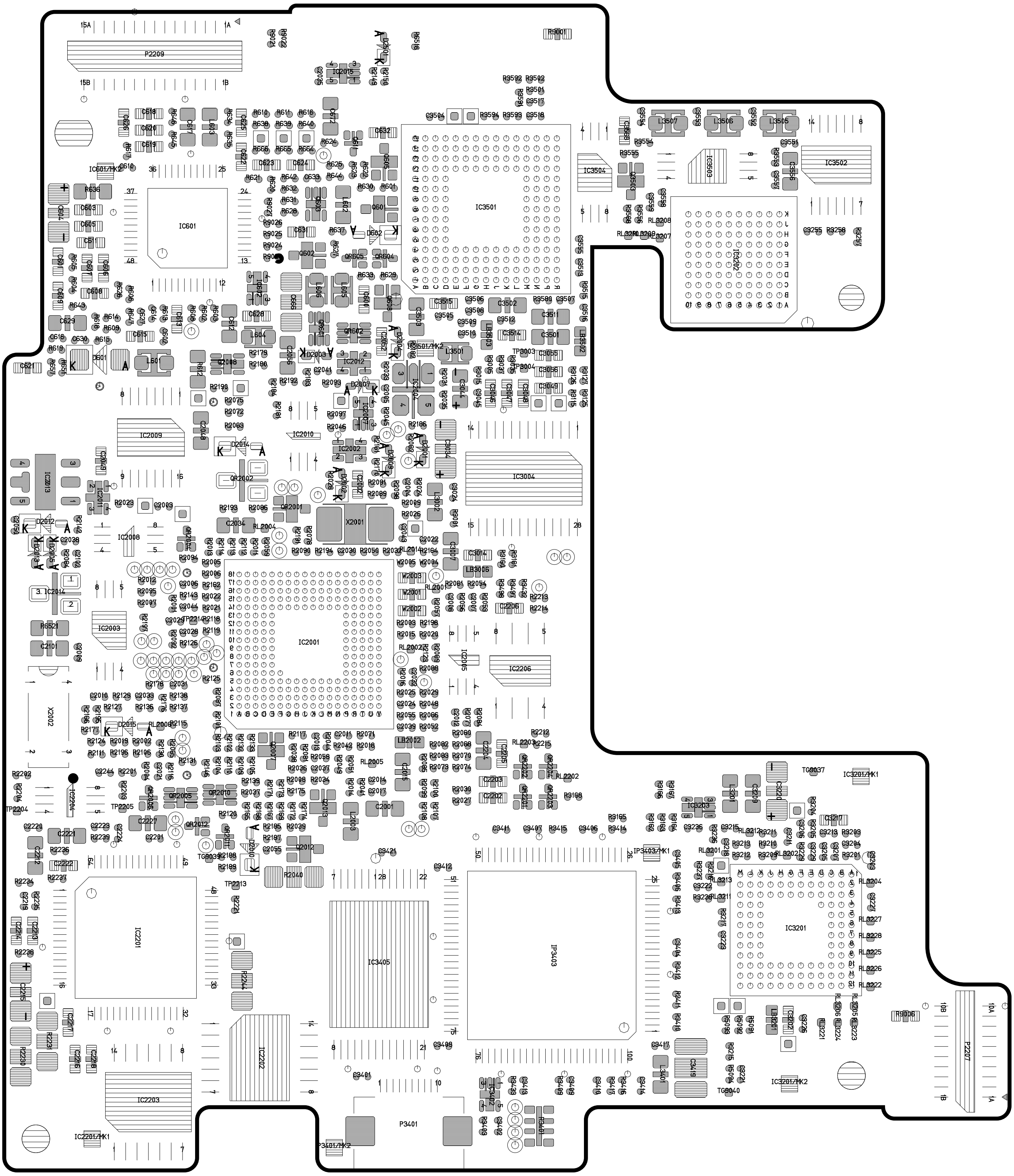
CONTENTS

VTR C.B.A. (DVX100AP/AN : VEP03G55A) (DVX100AE/EN, DVC180AMC : VEP03G55B)........................CBA-1
CAMERA C.B.A. (DVX100AP/AN : VEP23597A) (DVX100AE/EN, DVC180AMC : VEP23597B).................CBA-3
POWER C.B.A. (VEP01914B) CBA-5
R SIDE C.B.A. (DVX100AP/AN : VEP04817A) (DVX100AE/EN, DVC180AMC : VEP04817B) CBA-6
MONITOR C.B.A. (VEP26257A) CBA-7
POWER 2 C.B.A. (VEP01922A) CBA-8

VTR C.B.A. (DVX100A/P/AN:VEP03G55A)
(DVX100AE/EN,DVC180AMC:VEP03G55B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC601	D1	IC2009	D2	IC2203	D5	IC3501	B1	Q602	C2	Q3503	B1	QR2006	D4	TG9039	D4
IC602	D2	IC2010	C2	IC2204	D4	IC3502	A1	Q603	C1	QR601	C2	QR2010	D4	TG9040	B5
IC2001	C3	IC2011	D3	IC2206	B3	IC3503	A1	Q605	C1	QR602	C2	QR2011	D4	TP2204	D4
IC2002	C2	IC2012	C2	IC3001	C3	IC3504	B1	Q608	C2	QR604	C2	QR2012	D4	TP2205	D4
IC2003	D3	IC2013	D3	IC3004	B3	IP3403	B4	Q611	C1	QR605	C2	QR2201	B4	TP2213	D4
IC2004	C2	IC2014	D3	IC3201	A4	P2207	A5	Q2007	C4	QR2001	C3	QR2202	B4	TP2214	D3
IC2005	C3	IC2015	C1	IC3202	A2	P2209	D1	Q2008	D2	QR2002	D3	QR2203	B4	TP3003	B2
IC2007	C2	IC2201	D5	IC3402	B5	P3401	C5	Q2012	C4	QR2004	D3	QR2204	B4	TP3004	B2
IC2008	D3	IC2202	D5	IC3405	C4	Q601	C1	Q2013	C4	QR2005	D4	TG9037	A4		

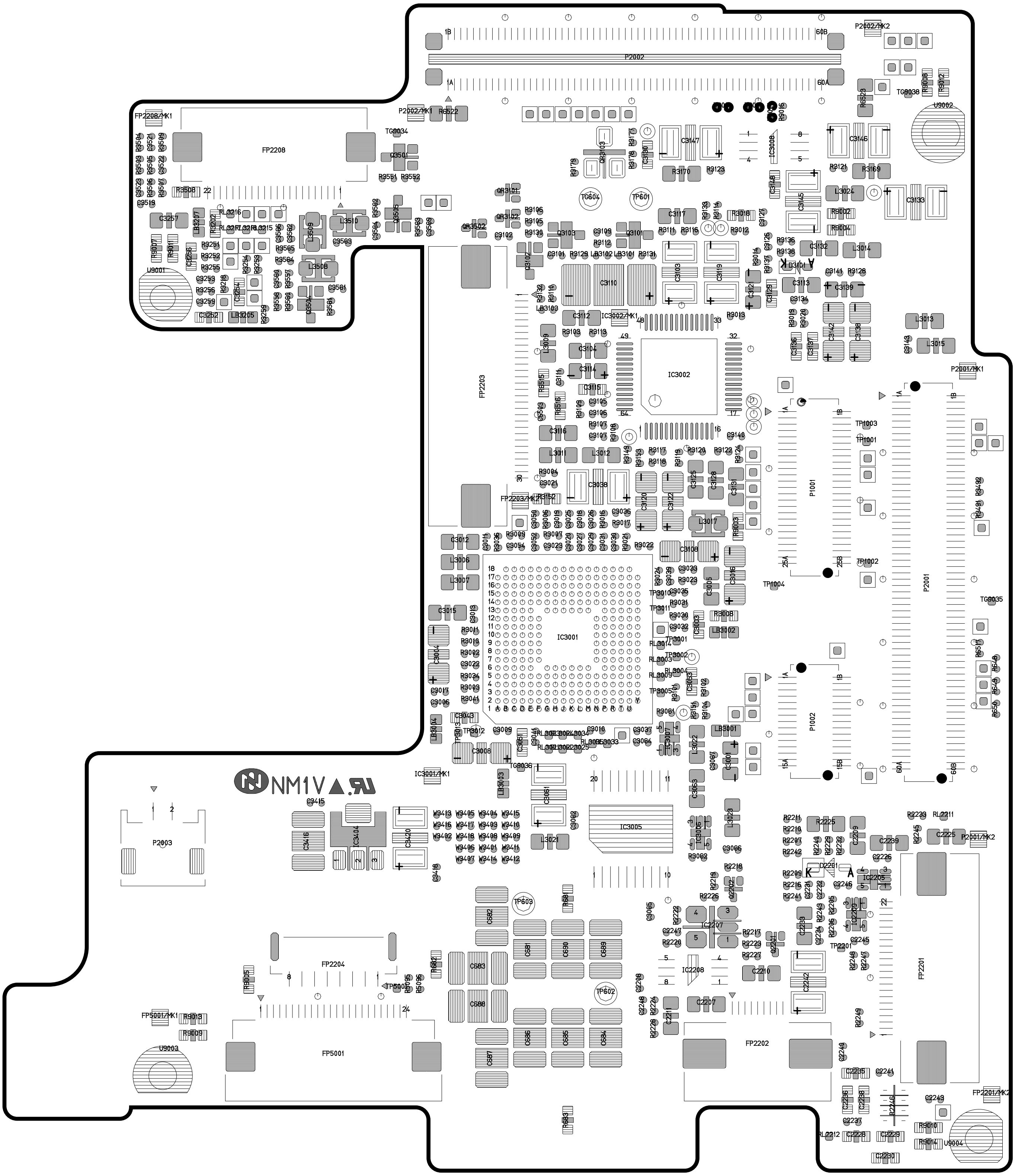

P2209
15A
1A
15B
1B
IC601
IC3501
IC3502
IC3503
IC3504
IC3202
IC2009
IC2013
IC2008
IC2003
IC2001
IC2002
IC2010
IC2012
IC3004
IC2206
IC2005
X2001
X2002
IC2201
IC2202
IC2203
IC3405
IP3403
IC3201
P2207
P3401
10A
10B
1A
1B
TG9037
TG9040
TP2204
TP2205
TP2213
TP3003
TP3004

(FOIL SIDE)

VTR C.B.A. (DVX100A/P/AN:VEP03G55A)
(DVX100AE/EN,DVC180AMC:VEP03G55B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2205	D4	IC3008	D1	Q3101	C2	QR3502	B1	TP1001	D2	TP3012	B4
IC2207	C4	IC3404	B4	Q3102	B2	TG604	C1	TP1002	D3	TP3013	B4
IC2208	C5	P1001	D3	Q3103	C2	TG9034	B1	TP1003	D2	TP5001	B5
IC2209	D4	P1002	D4	Q3501	B1	TG9035	D3	TP1004	D3		
IC3001	C3	P2001	D3	Q3504	A2	TG9036	B4	TP2201	D5		
IC3002	C2	P2002	C1	Q3505	B1	TG9038	D1	TP3001	C3		
IC3005	C4	P2003	A4	QR3101	B1	TP601	C1	TP3002	C3		
IC3006	C4	Q2201	D5	QR3102	B1	TP602	C5	TP3010	C3		
IC3007	C4	Q2202	C4	QR3103	C1	TP603	B4	TP3011	C3		

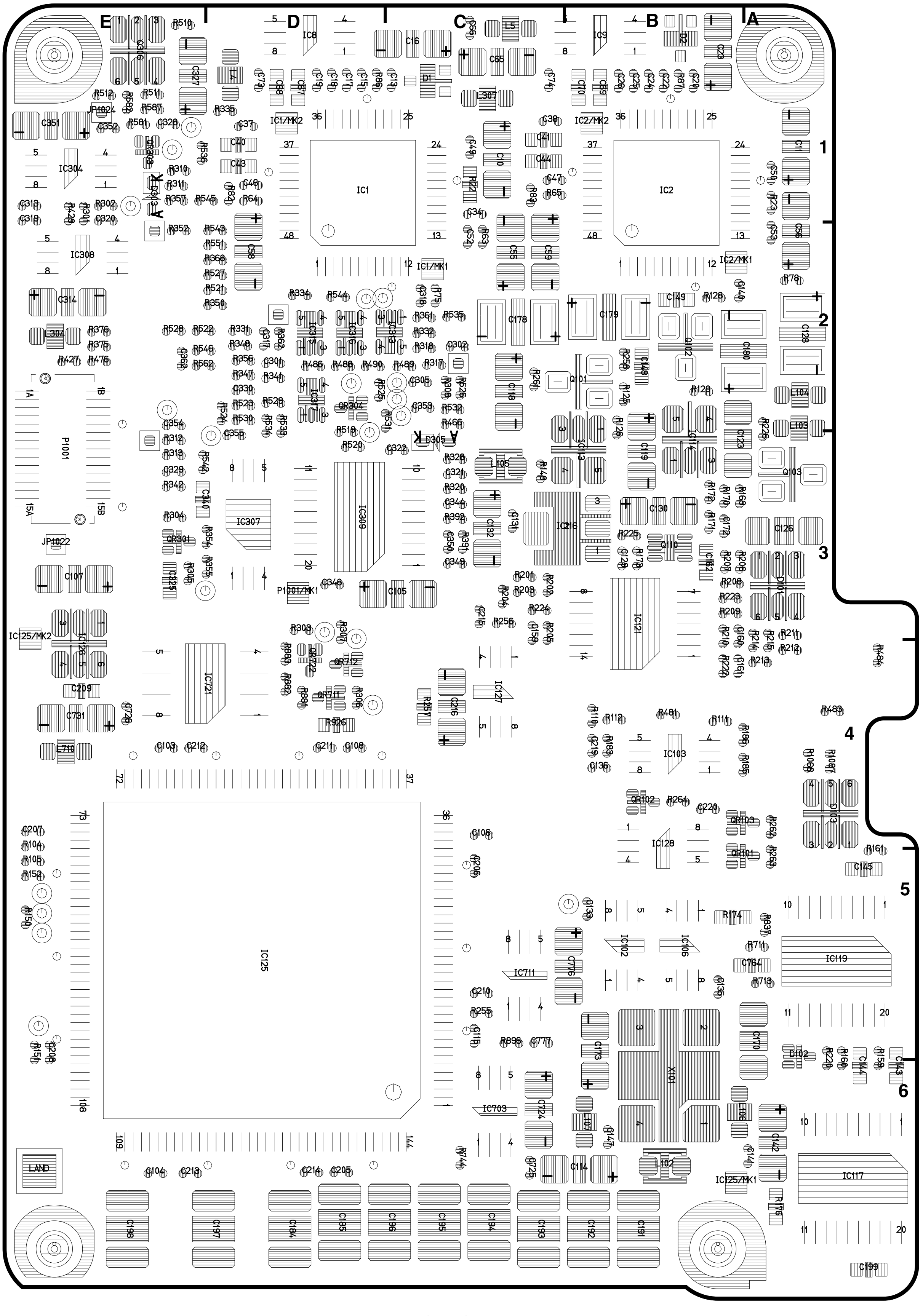

P2002
P2002/MK2
P2002/MK1
FP2208/MK1
FP2208
TG9034
TG9038
U9002
Q3501
TG604
TP601
IC3008
C3147
C3146
C3133
IC3002
IC3002/MK1
FP2203
FP2203/MK1
IC3001
P1001
P2001
P2001/MK1
P1002
TP1001
TP1002
TP1003
TP1004
TG9035
U9001
IC3001/MK1
NM1V
P2003
IC3404
IC3005
TP603
IC2207
IC2208
IC2205
FP2204
TP5001
FP5001
FP5001/MK1
U9003
TP602
FP2202
FP2201
FP2201/MK2
TP2201
U9004

(COMPONENT SIDE)

CAMERA C.B.A. (DVX100A/P/AN:VEP23597A)
(DVX100AE/EN,DVC180AMC:VEP23597B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	D1	IC103	B4	IC119	A5	IC128	B4	IC313	C2	P1001	E3	QR101	B5	QR304	D2
IC2	B1	IC106	B5	IC121	B3	IC304	E1	IC315	D2	Q103	A3	QR102	B4	QR711	D4
IC8	D1	IC114	B3	IC125	D5	IC307	D3	IC316	D2	Q110	B3	QR103	B4	QR712	D4
IC9	B1	IC116	B3	IC126	E4	IC308	E2	IC317	D2	Q201	B2	QR301	E3	QR722	D4
IC102	B5	IC117	A6	IC127	C4	IC309	D3	IC721	E4	Q306	E1	QR303	E1		

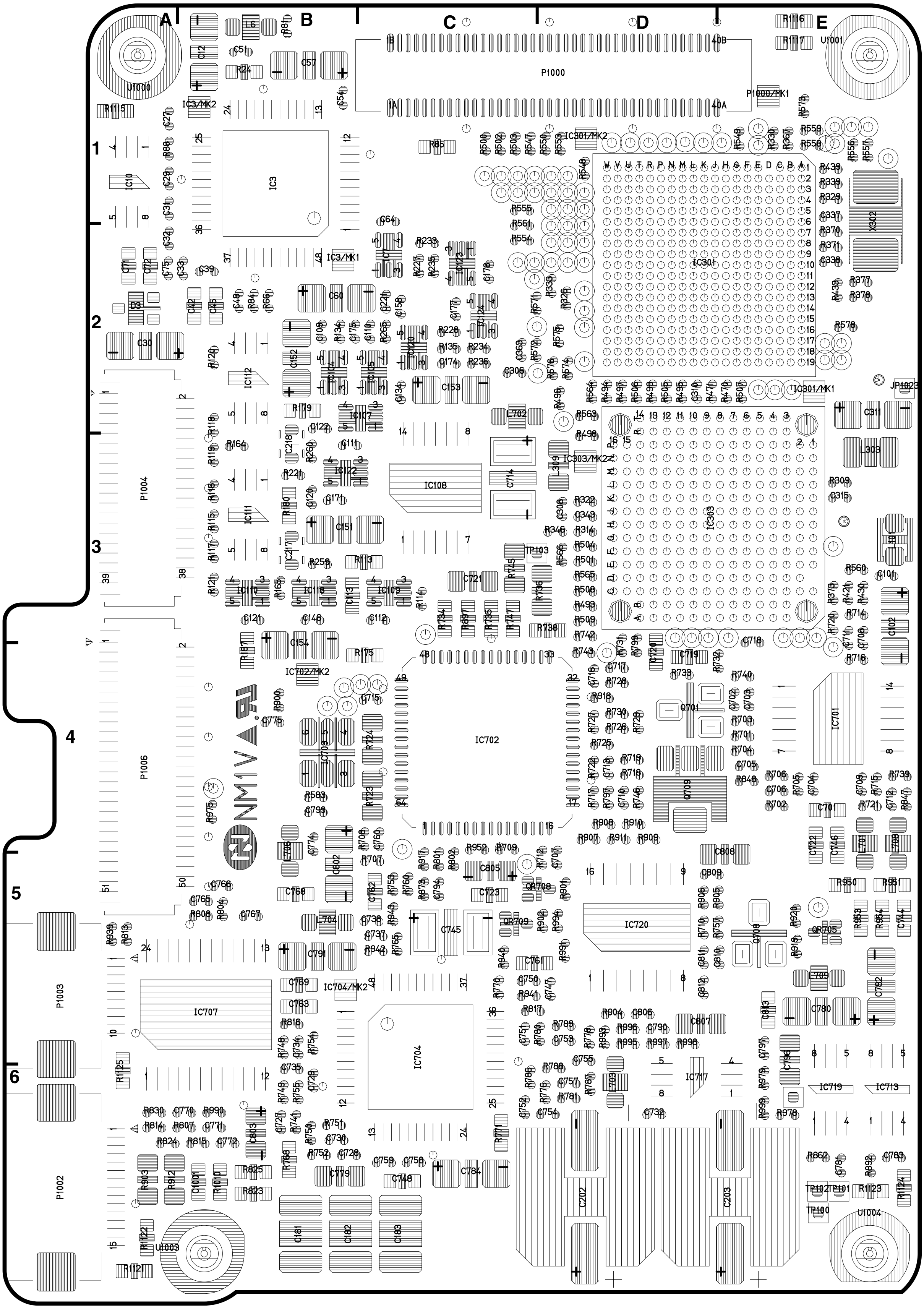

E
D
C
B
A
1
2
3
4
5
6
IC1
IC2
IC8
IC9
IC102
IC103
IC106
IC113
IC114
IC116
IC117
IC119
IC121
IC125
IC126
IC127
IC128
IC304
IC307
IC308
IC309
IC313
IC315
IC316
IC317
IC703
IC711
IC721
P1001
X101
L102
L103
L104
L105
L304
L307
L710
Q101
Q102
Q103
Q110
D101
D102
D103
D305
JP1022
JP1024
LAND

(FOIL SIDE)

CAMERA C.B.A. (DVX100A/P/AN:VEP23597A)
(DVX100AE/EN,DVC180AMC:VEP23597B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3	B1	IC105	C2	IC111	B3	IC123	C2	IC702	C4	IC711	D6	IC720	D5	P1006	A4	QR701	E5
IC7	C1	IC107	B2	IC112	B2	IC124	C2	IC703	E6	IC713	E6	O1004	A3	Q701	D4	QR705	E5
IC10	A1	IC108	C3	IC118	B3	IC301	D2	IC704	C5	IC716	B4	P1000	D1	Q702	E5	QR708	C5
IC12	B2	IC109	C3	IC120	C2	IC303	D3	IC707	B5	IC717	D6	P1002	A6	Q708	E5	QR709	C5
IC104	B2	IC110	B3	IC122	B3	IC701	E4	IC709	B4	IC719	E6	P1003	A5	Q709	D4		

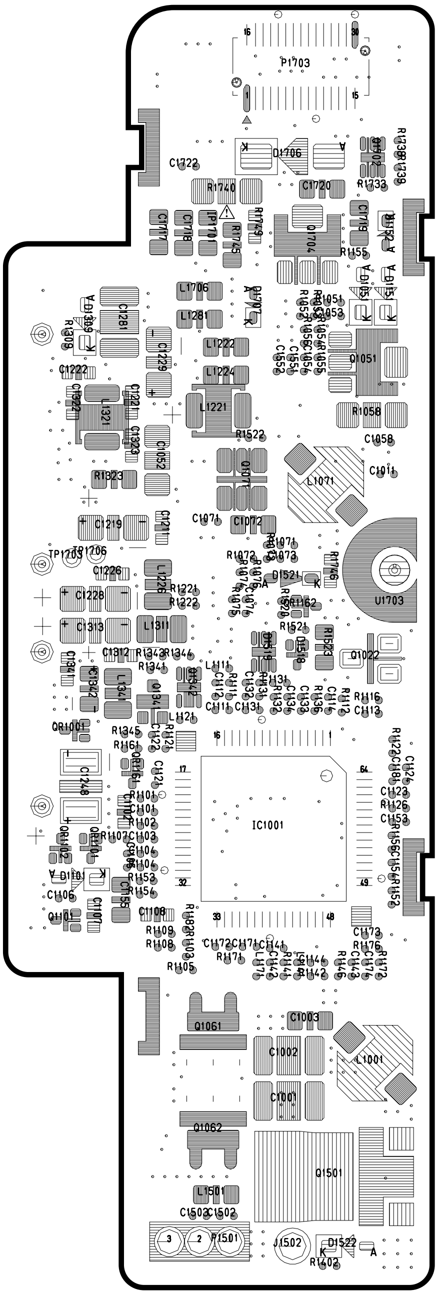

A
B
C
D
E
1
2
3
4
5
6
U1000
U1001
U1003
U1004
P1000
P1002
P1003
P1004
P1006
IC3
IC10
IC104
IC105
IC107
IC108
IC109
IC110
IC111
IC112
IC118
IC120
IC122
IC123
IC124
IC301
IC303
IC701
IC702
IC704
IC707
IC709
IC713
IC717
IC719
IC720
Q701
Q708
Q709
QR705
QR708
QR709
X302
C202
C203
C181
C182
C183
NM1V

(COMPONENT SIDE)

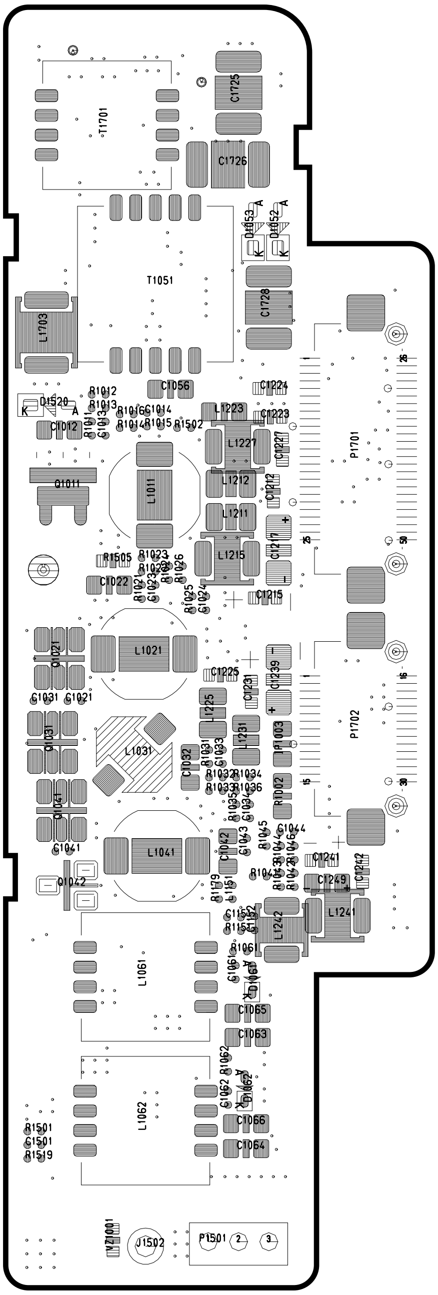
POWER C.B.A. (VEP01914B)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

⚠ 警 告	⚠ 印の部品は安全上重要な部品です。 交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。



(FOIL SIDE)

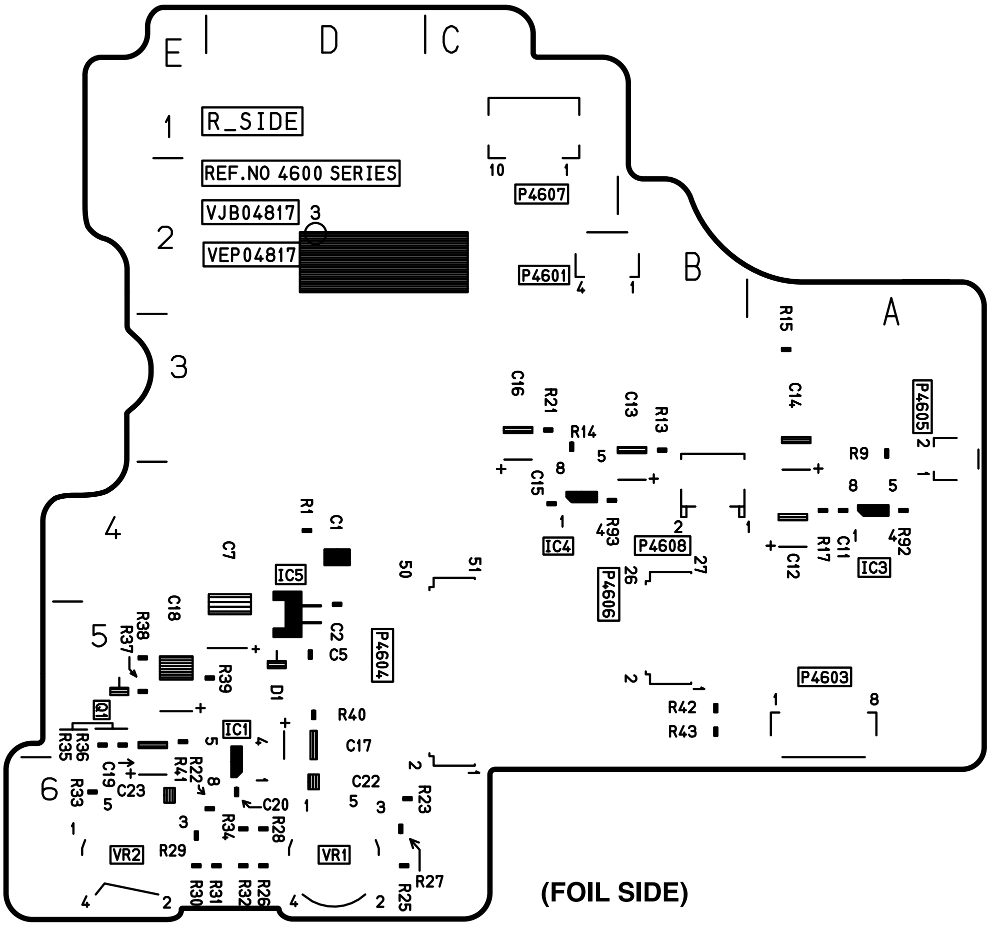


(COMPONENT SIDE)

R SIDE C.B.A. (DVX100A/P/AN:VEP04817A)
(DVX100AE/EN,DVC180AMC:VEP04817B)

FOIL SIDE

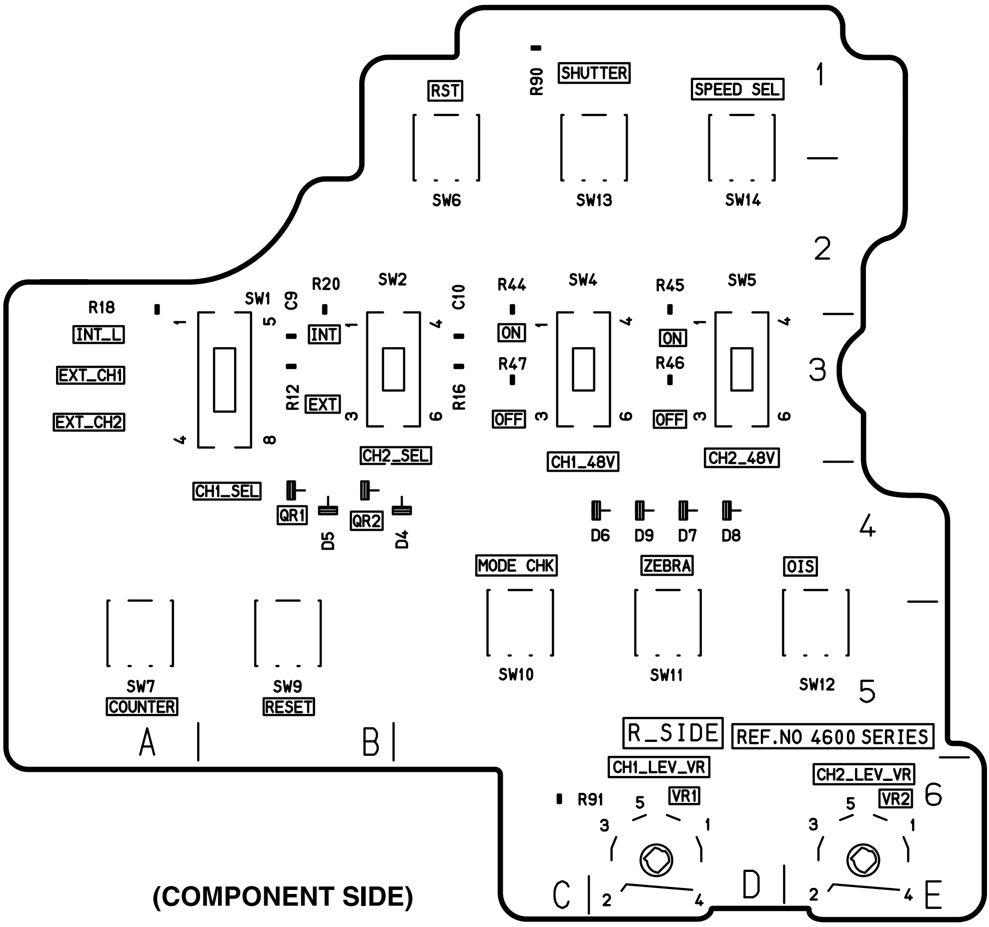
REF	LOC
IC1	D6
IC3	A4
IC4	C4
IC5	D5
P4601	C2
P4603	A5
P4604	C5
P4605	A3
P4606	B5
P4607	C1
P4608	B4
Q1	E5
VR1	D6
VR2	E6


E
D
C
B
A
1
2
3
4
5
6
R_SIDE
REF.NO 4600 SERIES
VJB04817
VEP04817
P4607
P4601
P4605
P4608
P4606
P4604
P4603
IC3
IC4
IC5
IC1
Q1
VR1
VR2
C1
C2
C5
C7
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C22
C23
D1
R1
R9
R13
R14
R15
R17
R21
R22
R23
R25
R26
R27
R28
R29
R30
R31
R32
R33
R34
R35
R36
R37
R38
R39
R40
R41
R42
R43
R92
R93

(FOIL SIDE)

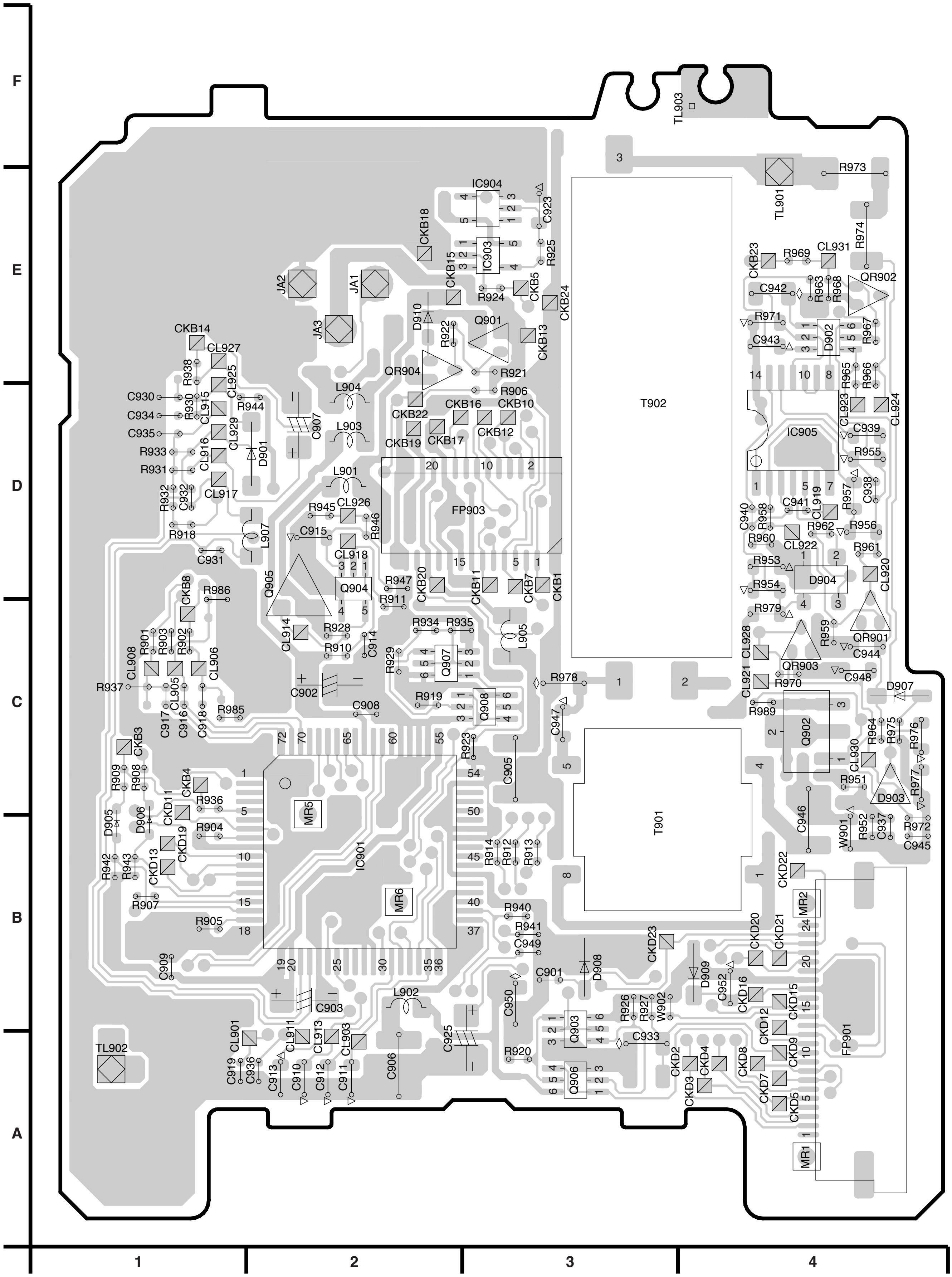
COMPONENT SIDE

REF	LOC
QR1	B4
QR2	B4
VR1	D6
VR2	E6


1
2
3
4
5
6
A
B
C
D
E
RST
SHUTTER
SPEED SEL
R90
SW6
SW13
SW14
R18
SW1
C9
R20
SW2
C10
R44
SW4
R45
SW5
INT_L
EXT_CH1
EXT_CH2
INT
EXT
R12
R16
ON
OFF
R47
R46
CH2_SEL
CH1_48V
CH2_48V
CH1_SEL
QR1
QR2
D5
D4
D6
D9
D7
D8
MODE CHK
ZEBRA
OIS
SW7
COUNTER
SW9
RESET
SW10
SW11
SW12
R_SIDE
REF.NO 4600 SERIES
CH1_LEV_VR
VR1
CH2_LEV_VR
VR2
R91

(COMPONENT SIDE)

MONITOR C.B.A. (VEP26257A)


F
E
D
C
B
A
1
2
3
4
TL903
3
R973
TL901
IC904
C923
CKB18
CKB15
IC903
R925
CKB5
R924
CKB24
R974
CKB23
R969
CL931
QR902
C942
R963
R968
JA2
JA1
JA3
D910
R922
Q901
CKB13
R971
D902
R967
C943
CKB14
CL927
R938
CL925
QR904
R921
L904
C930
R930
CL915
R944
C907
R906
CKB22
CKB16
CKB10
T902
R965
R966
CL923
CL924
IC905
C934
C935
CL929
L903
CKB19
CKB17
CKB12
C939
R955
R933
CL916
D901
R931
L901
FP903
R957
C938
CL917
R932
C932
R945
CL926
R946
C941
CL919
C940
R958
R918
L907
C915
CL918
R960
CL922
R962
R956
C931
R961
Q905
Q904
R953
D904
CL920
CKB8
R986
R947
CKB20
CKB11
CKB7
CKB1
R911
R954
R979
CL914
R928
R934
R935
L905
R959
QR901
CL908
R901
R903
R902
CL906
R910
C914
R929
Q907
CL928
QR903
C944
R937
CL905
C902
R978
CL921
R970
C948
D907
C917
C916
C918
R985
C908
R919
Q908
C947
R989
Q902
R964
R975
R976
CKB3
R923
C905
CL930
R909
R908
CKB4
R936
CKD11
D905
D906
CKD19
R904
MR5
IC901
T901
R951
D903
R977
C946
R952
C937
R972
C945
W901
R942
R943
CKD13
R914
R912
R913
CKD22
R907
MR6
R940
MR2
R905
R941
C949
CKD23
CKD20
CKD21
C909
D908
C901
D909
C952
CKD16
CKD15
C950
R926
R927
W902
C903
L902
CKD12
TL902
CL901
CL911
CL913
CL903
C925
Q903
C933
FP901
CKD9
R920
Q906
CKD2
CKD4
CKD8
C919
C936
C913
C910
C912
C911
C906
CKD3
CKD7
CKD5
MR1

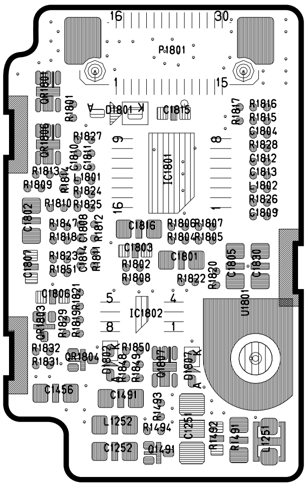
(COMPONENT SIDE)

MONITOR C.B.A. (VEP26257A)

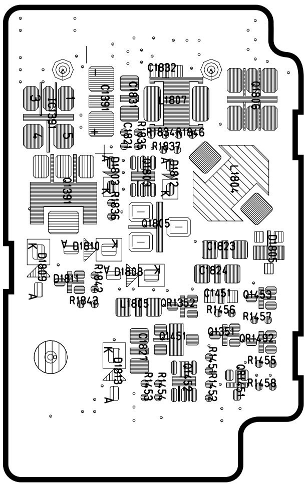
Monitor u.B.A.											
Integrated uircuit		CL921	C-4	L907	E-2	C939	E-4	R924	E-3	R962	E-4
IC901	B-2	CL922	E-4	**Transformer**		C940	E-4	R925	E-3	R963	E-4
IC903	E-3	CL923	E-4	T901	B-3	C941	E-4	R926	B-3	R964	C-4
IC904	E-3	CL924	E-4	T902	E-3	C942	E-4	R927	B-3	R965	E-4
IC905	E-4	CL925	E-1	**uapacitor**		C943	E-4	R928	C-2	R966	E-4
Transistor		CL926	E-2	C901	B-3	C944	C-4	R929	C-2	R967	E-4
Q901	E-3	CL927	E-1	C902	C-2	C945	B-4	R930	E-1	R968	E-4
Q902	C-4	CL928	C-4	C903	B-2	C946	B-4	R931	E-1	R969	E-4
Q903	A-3	CL929	E-1	C905	C-3	C947	C-3	R932	E-1	R970	C-4
Q904	E-2	CL930	C-4	C906	A-2	C948	C-4	R933	E-1	R971	E-4
Q905	E-2	CL931	E-4	C907	E-2	C949	B-3	R934	C-2	R972	B-4
Q906	A-3	TL901	E-4	C908	C-2	C950	B-3	R935	C-2	R973	E-4
Q907	C-2	TL902	A-1	C909	B-1	C952	B-4	R936	C-1	R974	E-4
Q908	C-3	TL903	F-4	C910	A-2	**Resistor**		R937	C-1	R975	C-4
Transistor & Resistor		**uonnector**		C911	A-2	R901	C-1	R938	E-1	R976	C-4
QR901	C-4	FP901	A-4	C912	A-2	R902	C-1	R940	B-3	R977	C-4
QR902	E-4	FP903	E-3	C913	A-2	R903	C-1	R941	B-3	R978	C-3
QR903	C-4	**Diode**		C914	C-2	R904	B-1	R942	B-1	R979	C-4
QR904	E-2	E901	E-2	C915	E-2	R905	B-1	R943	B-1	R985	C-1
Test Point		E902	E-4	C916	C-1	R906	E-3	R944	E-2	R986	C-1
CL901	A-2	E903	C-4	C917	C-1	R907	B-1	R945	E-2	R989	C-4
CL903	A-2	E904	E-4	C918	C-1	R908	C-1	R946	E-2	**Wire**	
CL905	C-1	E905	B-1	C919	A-1	R909	C-1	R947	E-2	W901	B-4
CL906	C-1	E906	B-1	C923	E-3	R910	C-2	R951	C-4	W902	B-3
CL908	C-1	E907	C-4	C925	A-2	R911	C-2	R952	B-4	**Jumper**	
CL911	A-2	E908	B-3	C930	E-1	R912	B-3	R953	E-4	JA1	E-2
CL913	A-2	E909	B-4	C931	E-1	R913	B-3	R954	E-4	JA2	E-2
CL914	C-2	E910	E-2	C932	E-1	R914	B-3	R955	E-4	JA3	E-2
CL915	E-1	**uoil**		C933	A-3	R918	E-1	R956	E-4		
CL916	E-1	L901	E-2	C934	E-1	R919	C-2	R957	E-4		
CL917	E-1	L902	B-2	C935	E-1	R920	A-3	R958	E-4		
CL918	E-2	L903	E-2	C936	A-2	R921	E-3	R959	C-4		
CL919	E-4	L904	E-2	C937	B-4	R922	E-2	R960	E-4		
CL920	E-4	L905	C-3	C938	E-4	R923	C-3	R961	E-4		

AEERESS INFORMATION

POWER 2 C.B.A. (VEP01922A)


16
30
P1801
1
15
D1801
C1815
IC1801
IC1802
U1801
C1816
C1803
C1801
C1456
C1491
L1252
C1252
L1251
Q1491

(FOIL SIDE)


C1832
L1807
IC1391
L1806
Q1805
D1810
D1808
C1823
C1824
L1805
QR1352
C1451
Q1451
Q1453
R1457
QR1492
R1455
R1458

(COMPONENT SIDE)

SECTION 8

EXPLODED VIEWS
&
REPLACEMENT PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
3. The P.C. Board unit marked with "■" shown below the main assembled parts.
4. The parts marked with Ⓔ on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the discontinuation of this assembly in production, it will no longer be available.
7. "(M)" in Remark column indicates needed in the periodical maintenance.

CONTENTS

SERVICING FIXTURES & TOOLS PRT-1
MECHANICAL CHASSIS ASSEMBLY (1) PRT-2
MECHANICAL CHASSIS ASSEMBLY (2) PRT-4
FRAME & CASING PARTS ASSEMBLY (1) PRT-6
FRAME & CASING PARTS ASSEMBLY (2) PRT-8
HANDLE & EVF PARTS ASSEMBLY PRT-10
LCD PARTS ASSEMBLY PRT-12
PACKING PARTS ASSEMBLY PRT-14
ELECTRICAL REPLACEMENT PARTS LIST (AG-DVX100AP/AN) PRT-16
ELECTRICAL REPLACEMENT PARTS LIST (AG-DVX100AE/EN, DVC180AMC) PRT-33

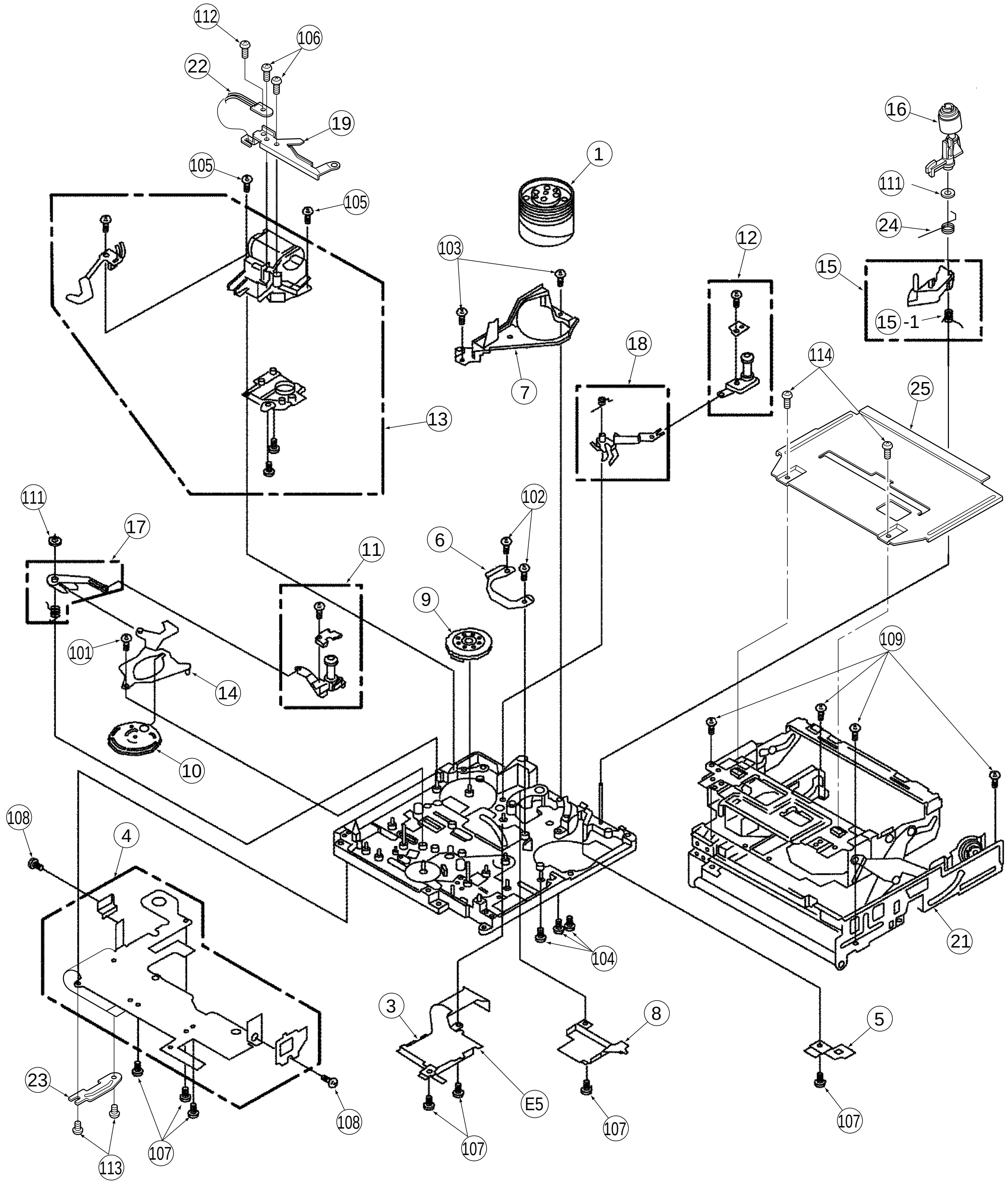
AG-DVX100AP/AN				AG-DVX100AE/EN, DVC180AMC			
Ref. No.	**Parts No.**	**C.B.A.**	**Page**	**Ref. No.**	**Parts No.**	**C.B.A.**	**Page**
E1	VEP03G55A	VTR	PRT-16	E1	VEP03G55B	VTR	PRT-33
E2	VEP23597A	CAMERA	PRT-21	E2	VEP23597B	CAMERA	PRT-38
E3	VEP01914B	POWER	PRT-24	E3	VEP01914B	POWER	PRT-41
E4	VEP01922A	POWER 2	PRT-26	E4	VEP01922A	POWER 2	PRT-43
E5	VEP05395A	H/F AMP	PRT-26	E5	VEP05395A	H/F AMP	PRT-43
E6	VEP04817A	R SIDE	PRT-27	E6	VEP04817B	R SIDE	PRT-44
E7	VEP06E92A	CAMERA OP1	PRT-27	E7	VEP06E92A	CAMERA OP1	PRT-44
E8	VEP06E93A	CAMERA OP2	PRT-27	E8	VEP06E93A	CAMERA OP2	PRT-44
E9	VEP28272B	EVF A	PRT-27	E9	VEP28272B	EVF A	PRT-44
E10	VEP28275B	EVF B	PRT-27	E10	VEP28275B	EVF B	PRT-44
E11	VEP001E7A	MENU	PRT-27	E11	VEP001E7A	MENU	PRT-44
E12	VEP06F70A	HANDLE 1	PRT-27	E12	VEP06F70A	HANDLE 1	PRT-44
E13	VEP06F04A	HANDLE 2	PRT-28	E13	VEP06F04A	HANDLE 2	PRT-45
E14	VEP04828A	MIC	PRT-28	E14	VEP04828A	MIC	PRT-45
E15	VEP06E94A	F TALLY	PRT-28	E15	VEP06E94A	F TALLY	PRT-45
E16	VEP000Y2A	EVR CONNECT	PRT-28	E16	VEP000Y2A	EVR CONNECT	PRT-45
E17	VEP000Y3B	VC CONNECT	PRT-29	E17	VEP000Y3B	VC CONNECT	PRT-46
E18	VEP000Y4A	LCD OPEN SW	PRT-29	E18	VEP000Y4A	LCD OPEN SW	PRT-46
E19	VEP000Y6A	REAR JACK CONNECT	PRT-29	E19	VEP000Y6A	REAR JACK CONNECT	PRT-46
E20	VEP000Y7A	EJECT	PRT-29	E20	VEP000Y7A	EJECT	PRT-46
E21	VEP04819A	REAR JACK	PRT-29	E21	VEP04819A	REAR JACK	PRT-46
E22	VEP06E96A	POWER SW	PRT-29	E22	VEP06E96A	POWER SW	PRT-46
E23	VEP06E90A	ZOOM SW	PRT-29	E23	VEP06E90A	ZOOM SW	PRT-46
E24	VEP000Y9A	TOP OP	PRT-29	E24	VEP000Y9A	TOP OP	PRT-46
E25	VEP22351A	GYRO	PRT-29	E25	VEP22351A	GYRO	PRT-46
E26	VEP04858A	SIDE JACK	PRT-30	E26	VEP04858A	SIDE JACK	PRT-47
E27	VEP04815A	EXT MIC CH2	PRT-30	E27	VEP04815A	EXT MIC CH2	PRT-47
E28	VEP04865A	EXT MIC CH1	PRT-30	E28	VEP04865A	EXT MIC CH1	PRT-47
E29	VEP06E89B	MODE SW	PRT-31	E29	VEP06E89B	MODE SW	PRT-48
E30	VEP01923A	DC IN	PRT-31	E30	VEP01923A	DC IN	PRT-48
E31	VEP01915B	BATTERY	PRT-31	E31	VEP01915B	BATTERY	PRT-48
E32	VEP26257A	MONITOR	PRT-31	E32	VEP26257A	MONITOR	PRT-48

SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFM3010EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	NTSC MODEL ONLY
2	VFM3110EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	PAL MODEL ONLY
3	VFM3000EDS	DV ALIGNMENT TAPE (LINEARITY)	1	
4	VFK1217	TAPE END/BEG DET CASSETTE	1	
8	VFK1308P	MEASURING BOARD	1	
9	VFK1309A	EVR CONNECTOR BOARD	1	
10	VFK1694	EVR EXTENDER BOARD	1	
11	VJA0941	DC CABLE	1	K2GY2DZ00003
12	VFK1317	30PIN FLAT CABLE	2	
13	VFK1809	72MM ATTACHMENT RING	1	
14	VFK1164TAR43	43MM ATTACHMENT RING	1	
15	VFK1164TCM01	COLLIMATOR SET	1	(INFINITY LENS)
16	VFK1345	CC FILTER HOLDER	1	
17	VFK1346	STEP DOWN RING	1	
18	VFK1659	STEP-UP RING	1	(43MM-49MM)
19	VFK1660	STEP-UP RING	1	(49MM-62MM)
20	VFK1341	CC FILTER (LB40)	1	NTSC MODEL ONLY
21	VFK1342	CC FILTER (LB80)	1	PAL MODEL ONLY
22	VFK1347	CC FILTER (LB120)	1	
23	VFK1884	CC FILTER (LBA2)	1	
24	VFK1888	CC FILTER (LBB6)	1	
25	VFK1885	CC FILTER (LBB2)	1	NTSC MODEL ONLY
26	VFK1886	CC FILTER (CC C10)	1	PAL MODEL ONLY
27	VFK1887	CC FILTER (CC C20)	1	PAL MODEL ONLY
28	VFK1409A	MEASURING BOARD	1	
29	VFK1233	MECH. NEUTRAL PLATE	1	
30	VFK1266	GEAR DRIVER	1	
31	VFK1149B	POST DRIVER	1	
32	VFK1151A	NUT DRIVER (2.5MM)	1	
33	VFK1810	LISTA MEASURING BOARD	1	
34	VFK1186	LISTA CABLE	1	
35	M0R265	MORLYTONE GREASE	1	
36	VFK1300	A/D CONVERTER BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

MECHANICAL CHASSIS ASSEMBLY (1)

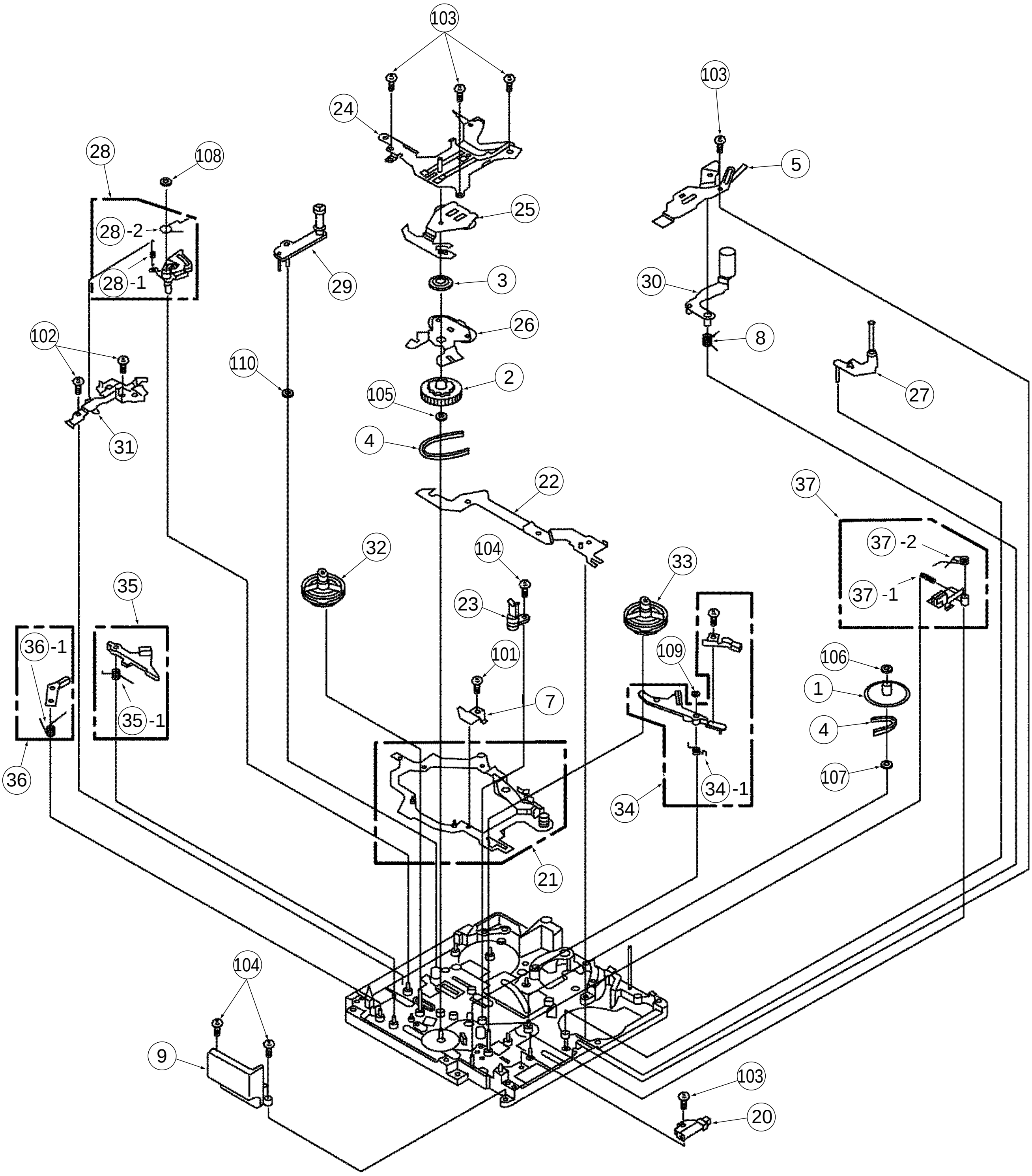


112
106
22
19
16
105
1
105
111
24
103
12
15
15 -1
18
114
25
7
13
111
102
17
6
11
9
109
101
14
10
108
4
21
104
3
8
5
E5
23
108
107
107
107
107
113

MECHANICAL CHASSIS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VEG1573	CYLINDER UNIT	1	(M)
3	VSC4639	SHIELD CASE	1	
4	VES0928	FLEXIBLE CABLE	1	
5	VMA0D82	CAPSTAN COVER	1	
6	VMA9179	RADON PLATE	1	
7	VMD2373	RAIL	1	
8	VSC4640	SHIELD CASE	1	
9	VSR0114	MODE SW	1	(M)
10	VXA5407	CAM GEAR	1	(M)
11	VXL3242	S BOAT ASS'Y	1	(M)
12	VXL3243	T BOAR ASS'Y	1	(M)
13	VXA5417	GEAR BOX	1	(M)
14	VXA5612	RADON ARM ASS'Y	1	
15	VXL2461	T2 ARM ASS'Y	1	
15-1	VMB2789	T2 ARM SPRING	1	
16	VXL3103	CLEANING ARM ASS'Y	1	(M)
17	VXL2470	S1 ARM ASS'Y	1	
18	VXL2471	T1 ARM ASS'Y	1	
19	VMA0P25	CYLINDER HOLD ANGLE	1	
21	VXA5387	GARAGE ASS'Y	1	
22	EYHS77Y7	DEW SENSOR ASS'Y	1	
23	VMD4706	FLEX HOLDER	1	
24	VMB3518	CLEANING SPRING	1	
25	VMP7361	CASSETTE BLINDER PLATE	1	
101	VHD0878	SCREW	1	
102	VHD0989	SCREW	2	
103	XQN14+B4	SCREW	2	
104	VXQ0439	SCREW	3	
105	XQN14+B35	SCREW	2	
106	XQN14+BQ4	SCREW	2	
107	XQN14+B15	SCREW	7	
108	XQN14+B2	SCREW	2	
109	VHD0882	SCREW	4	
111	VMX2027	CUT WASHER	2	
112	XQN2+CF3	SCREW	1	
113	VHD1285	SCREW	2	
114	XQN2+B2FZ	SCREW	2	
E5	VEP05395A	H/R AMP C.B.A.	1	

MECHANICAL CHASSIS ASSEMBLY (2)


103
103
24
5
28
108
25
28 -2
28 -1
29
3
30
102
26
8
110
2
27
105
31
4
22
37
32
104
37 -2
33
35
23
37 -1
36 -1
101
109
106
1
7
4
35 -1
107
34 -1
36
34
21
104
9
103
20

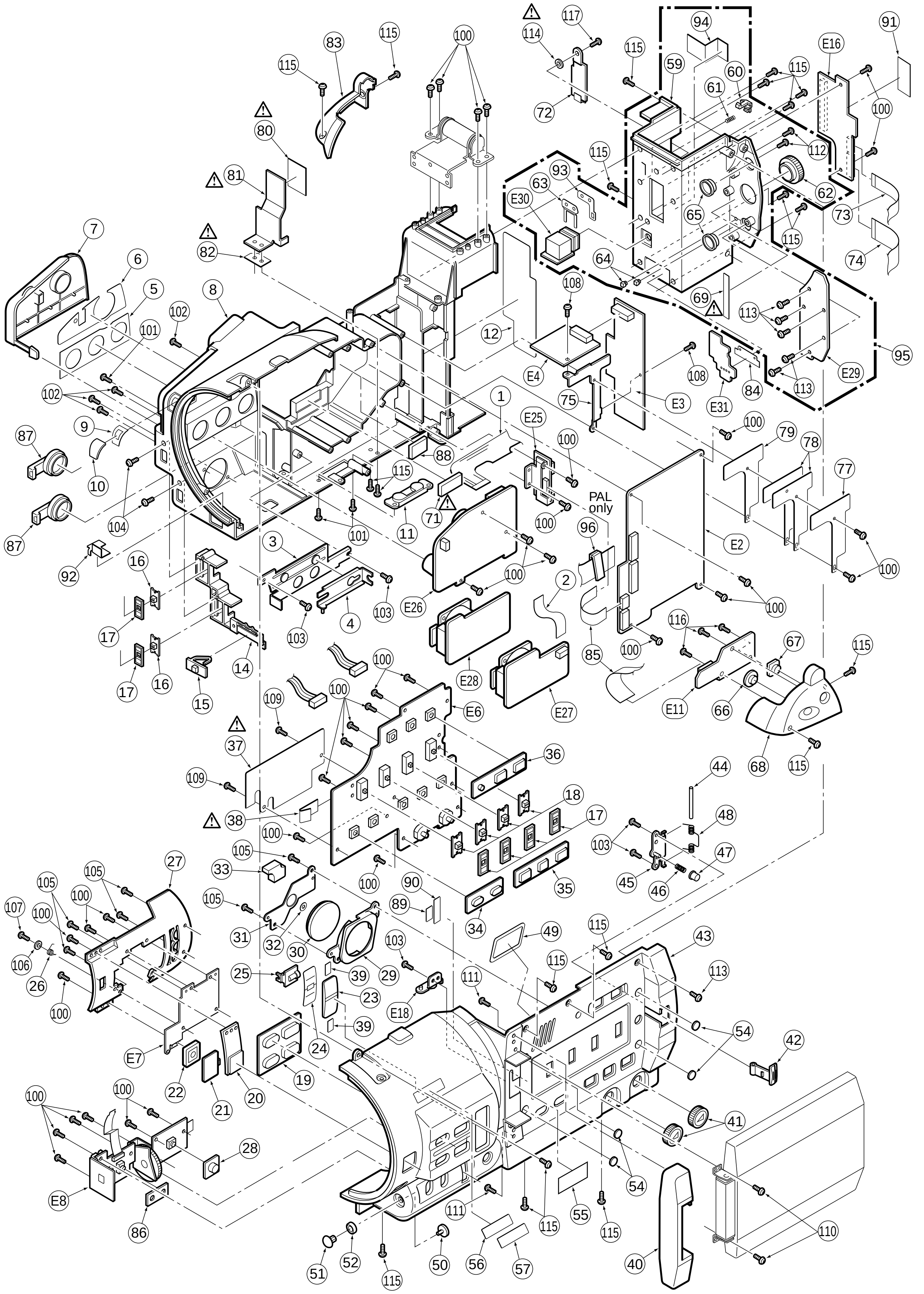
MECHANICAL CHASSIS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VDG1445	DRIVE PULLEY	1	
2	VDG1031	CENTER PULLEY	1	
3	VDG1032	SENSOR GEAR	1	
4	VDV0265	TIMING BELT	1	
5	VMA9178	PINCH PRESSURE PLATE	1	
7	VMA9181	BRAKE ROD SUPPORT (T)	1	
8	VMB2776	SPRING	1	
9	VSH0067	MIC SWITCH	1	K0MZ55000001
20	VSJ0114	SOLENOID	1	
21	VXA5401	BRAKE ROD ASS'Y	1	
22	VXA5408	T3 ROD ASS'Y	1	
23	VXA5411	LED HOLDER ASS'Y	1	
24	VXA6576	COVER PLATE ASS'Y	1	
25	VXL2454	P IDLER ARM ASS'Y	1	
26	VXL2455	FR IDLER ARM ASS'Y	1	
27	VXL2462	T3 ARM ASS'Y	1	
28	VXL2732	PAD ARM ASS'Y	1	(M)
28-1	VMB2788	TENSION SPRING	1	
28-2	VMB2787	PAD ARM SPRING	1	
29	VXL3244	TENSION ARM ASS'Y	1	(M)
30	VXL3161	PINCH ARM ASS'Y	1	(M)
31	VXL2466	EJECT ARM ASS'Y	1	
32	VXR0355	SUPPLY REEL TABLE	1	(M)
33	VXR0356	TAKE UP REEL TABLE	1	(M)
34	VXZ0319	TAKE UP MAIN BRAKE	1	
34-1	VMB2782	T MAIN BRAKE SPRING	1	
35	VXZ0321	SUPPLY MAIN BRAKE	1	(M)
35-1	VMB2783	S MAIN BRAKE SPRING	1	
36	VXZ0322	FF BRAKE ASS'Y	1	(M)
36-1	VMB2784	FF BRAKE SPRING	1	
37	VXZ0441	REV BRAKE ASS'Y	1	
37-1	VMB3388	REV SPRING	1	
37-2	VMB3389	REV BRAKE SPRING	1	
101	VHD0884	SCREW	1	
102	XQN14+B15	SCREW	2	
103	VHD0883	SCREW	5	
104	XQN14+B35	SCREW	3	
105	VMX2503	C PULLEY WASHER	1	
106	VMX3122	WASHER	1	
107	VMX2504	WASHER	1	
108	VMX2027	CUT WASHER	1	
109	VMX2028	WASHER	1	
110	VMX2394	WASHER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRAME & CASING PARTS ASSEMBLY (1)

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.



⚠
117
94
91
114
115
100
83
115
115
E16
59
60
115
61
100
72
⚠
80
⚠
81
93
115
112
63
E30
62
65
73
7
⚠
82
115
74
6
64
108
5
8
102
69
⚠
113
95
101
12
E29
E4
108
113
84
102
75
E3
E31
1
E25
100
79
87
9
78
100
88
115
77
10
⚠
71
11
PAL only
100
96
104
101
87
3
E2
92
16
2
100
100
100
E26
103
4
17
103
116
67
14
100
85
115
16
17
15
100
E28
E27
E11
66
109
100
E6
⚠
37
36
68
115
44
109
18
48
⚠
38
17
103
100
105
47
33
90
35
45
46
27
105
105
100
100
105
89
34
107
100
49
115
43
31
32
30
29
106
103
115
26
25
39
113
100
23
111
E18
39
54
42
E7
24
19
22
21
20
100
100
41
28
54
E8
111
115
55
115
110
86
51
52
50
56
57
40
115

FRAME & CASING PARTS ASSEMBLY (1)

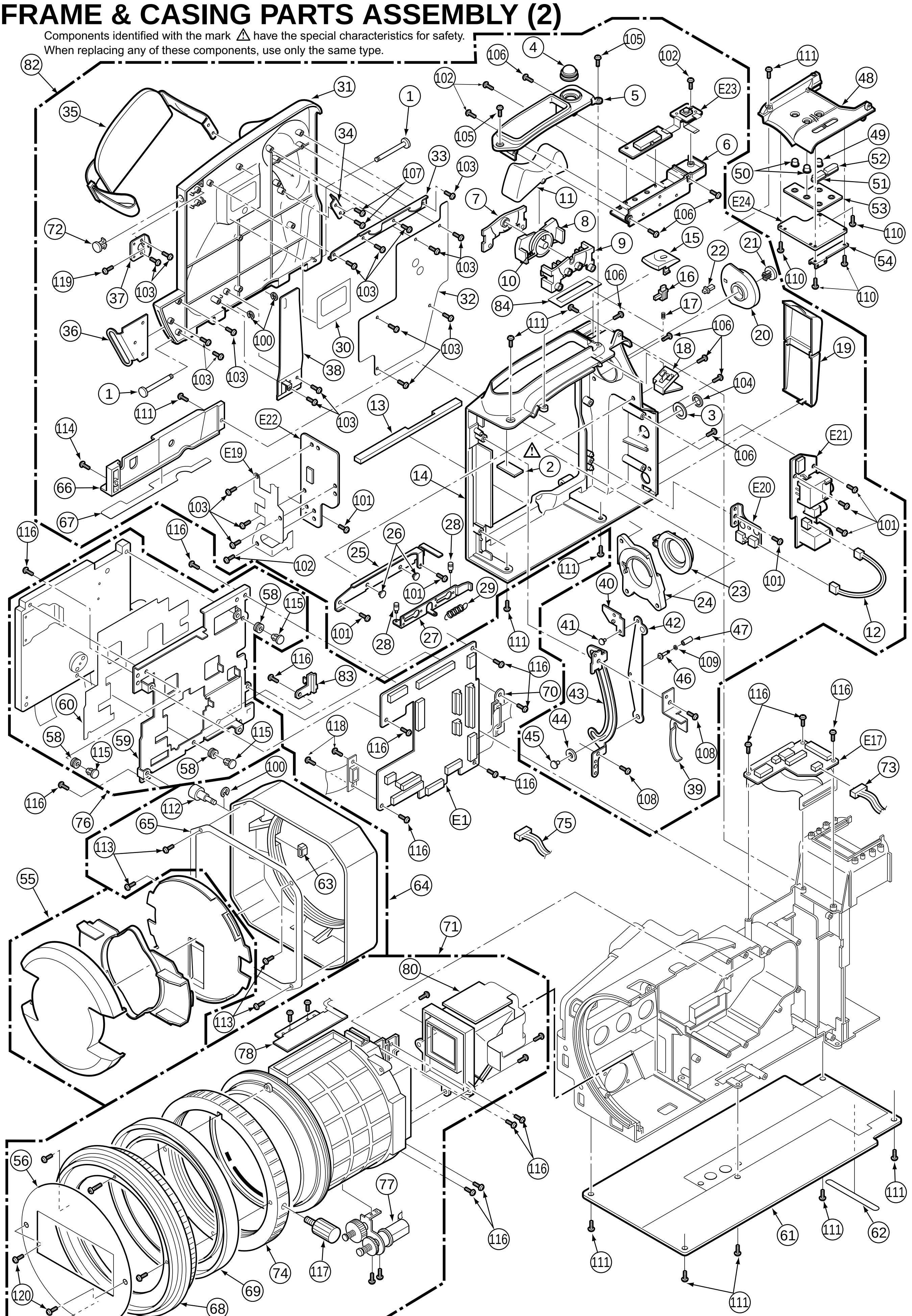
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VWJ1583	SIDE JACK FLEX.	1	
2	VWJ10E5050L0	FLAT CABLE	1	
3	VML3710	CLUTCH SLIDE PLATE	1	
4	VMP7341	CLUTH ANGLE	1	
5	VGH4612	JACK NAME PLATE B	1	
6	VGH4615	JACK NAME PLATE A	1	
7	VJF1470	SIDE JACK CAP	1	
8	VKM5983	CENTER FRAME	1	
9	VMZ3318	AWB COVER HOLDER SHEET	1	
10	VKW3078	AWB WINDOW	1	
11	VMD3345	TRIPOD FRAME	1	
12	VMZ3323	EVR INSULATION SHEET	1	
14	VGQ6902	MIC SWITCHING KNOB HOLDER	1	
15	VGU9246	ZOOM CLUTCH KNOB	1	
16	VGU9194	MIC SWITCHING KNOB	2	
17	VMG1460	SLIDE SW RUBBER COVER	6	
18	VGU9214	SLIDE KNOB	4	
19	VGU9200	CAMERA OP BUTTON	1	
20	VGQ6896	FOCUS KNOB HOLDER	1	
21	VGU9213	FOCUS SLIDE KNOB	1	
22	VGU9211	FOCUS BUTTON	1	
23	VGQ6894	ND SWITCHING PIECE	1	
24	VGQ6906	HOLDER BLIND SHEET	1	
25	VGU9222	ND SWITCHING KNOB	1	
26	VMB3681	FOCUS KNOB SPRING	1	
27	VGQ6905	ND FILTER HOLDER	1	
28	VGU9228	IRIS BUTTON	1	
29	VGQ6897	SPEAKER HOLDER	1	
30	VEK9842	SPEAKER ASS'Y	1	
31	VMP7330	SPEAKER HOLDER ANGLE	1	
32	VMT1347	SPEAKER HOLDER CUSHION	1	
33	VMT1367	P.C.B. HOLDER CUSHION	1	
34	VGU9250	RUBBER BUTTON 2	1	
35	VGU9251	RUBBER BUTTON 3	1	
36	VGU9202	RUBBER BUTTON 1	1	
⚠ 37	VSC5460	SIDE (R) SHIELD PLATE	1	
⚠ 38	VMZ3317	P.C.B. PROTECT SHEET	1	
39	VGQ7175	ND KNOB SHEET	2	
40	VGQ7637	HINGE COVER	1	
41	VGU9212	AUDIO ROTATING KNOG	2	
42	VGU9197	MONITOR LOCK KNOB	1	
43	VGP5997	SIDE CASE (R)	1	
44	VMS7187	LCD LOCK SHAFT	1	
45	VMP7331	OPENER HOLDER ANGLE	1	
46	VMB3661	POP UP SPRING	1	
47	VGQ6901	MONITOR KNOB	1	
48	VMB3659	MONITOR OPENER SPRING	1	
49	VKN0169	SPEAKER NET	1	
50	VGU9223	W.BAL KNOB (LOWER)	1	
51	VGU9217	W.BAL KNOB (UPPER)	1	
52	VMG1418	RAIN COVER RUBBER (B)	1	
54	VMG1286	CUSHION RUBBER	4	
55	VMZ3316	MONITOR FPC PROTECT SHEET	1	
56	VGQ4088	3CCD BADGE TAPE	1	
57	VGB0322	3CCD BADGE	1	
59	VGP6006	BACK PANEL	1	
60	VGU8582	BATTERY LOCK BUTTON	1	
61	VMB3210	BATTERY LOCK SPRING	1	
62	VGU9218	MODE SELECT KNOB	1	
63	VMP7340	DCIN ANGLE	1	
64	VGL1012	MODE PANEL LIGHT	2	
65	VGU9219	CAMERA/VCR BUTTON	2	
66	VGU9209	JOY STICK BUTTON	1	
67	VGU9199	MENU BUTTON	1	
68	VGQ6924	VF CASE (R)	1	AG-DVX100AP/AN
68	VGQ7347	VF CASE (R)	1	AG-DVX100AE/EN/DVC180AMC
⚠ 69	VMZ3315	BATTERY BLIND SHEET	1	
⚠ 71	VMG1516	CCD HEAT SINK SHEET	1	
72	VGQ6886	EVR COVER	1	
73	VWJ13E5085L0	FLEX. CABLE	1	
74	VWJ1585	R SIDE FPC	1	
75	VMP7357	P.C.B HOLDER ANGLE	1	
77	VMZ3340	SHIELD INSULATION PLATE 1	1	
78	VSC5478	CAMERA P.C.B. SHIELD	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
79	VMZ3341	SHIELD INSULATION PLATE 2	1	
⚠ 80	VMG1514	POWER HEAT SINK SHEET 1	1	
⚠ 81	VSC5471	POWER HEAT SINK SHEET	1	
⚠ 82	VMG1515	POWER HEAT SINK SHEET 2	1	
83	VGQ6923	VF CASE (L)	1	AG-DVX100AP/AN
83	VGQ7346	VF CASE (L)	1	AG-DVX100AE/EN/DVC180AMC
84	K4ZZ04000026	BATTERY CATHER	1	K4ZZ04000026
85	VWJ10E5050L0	FLAT CABLE	2	
86	VMG1520	TOGGLE SW CUSHION	1	
87	VJF1468	XLR CAP	2	
88	VMG1517	LENS HEAT SINK SHEET (2)	1	
89	VMZ3356	FPC PROTECT SHEET	1	
90	VMZ3357	FPC LOCK SHEET	1	
91	VMZ3345	LED INSULATION PLATE	1	
92	VMZ3376	JACK GUIDE SHEET	1	
93	VSC5519	EARTH PLATE	1	
94	VSC5525	EARTH SHEET	1	
95	VYK1A28	BACK CASE ASS'Y	1	AG-DVX100AP
95	VYK0Y43	BACK CASE ASS'Y	1	AG-DVX100AAN
95	VYK1A17	BACK CASE ASS'Y	1	AG-DVX100AE/EN
95	VYK1A18	BACK CASE ASS'Y	1	AG-DVC180AMC
96	J0ZZZ0000042	SHEET	1	AG-DVX100AE/EN/DVC180AMC
100	XQN2+B4FN	SCREW	35	
101	XQN16+B4FZ	SCREW	3	
102	XYN26+A6FZ	SCREW	4	
103	XYN2+C4	SCREW	5	
104	XQN16+BJ4FZ	SCREW	2	
105	XQN2+C5	SCREW	6	
106	XWG2	WASHER	1	
107	XQN16+BJ3FZ	SCREW	1	
108	XQN2+B35FN	SCREW	2	
109	XYN2+F5	SCREW	2	
110	XYN2+C6	SCREW	2	
111	XQN2+BJ6	SCREW	2	
112	XQN2+B3FZ	SCREW	2	
113	XQN2+BJ4FZ	SCREW	6	
⚠ 114	VMX3286	WASHER	1	
115	XQN2+B4FZ	SCREW	20	
116	XQN2+BJ4	SCREW	3	
117	XQN2+B6FZ	SCREW	1	
E2	VEP23597A	CAMERA C.B.A.	1	AG-DVX100AP/AN
E2	VEP23597B	CAMERA C.B.A.	1	AG-DVX100AE/EN/DVC180AMC
E3	VEP01914B	POWER C.B.A.	1	
E4	VEP01922A	POWER 2 C.B.A.	1	
E6	VEP04817A	R SIDE C.B.A.	1	AG-DVX100AP/AN
E6	VEP04817B	R SIDE C.B.A.	1	AG-DVX100AE/EN/DVC180AMC
E7	VEP06E92A	CAMERA OP1 C.B.A.	1	
E8	VEP06E93A	CAMERA OP2 C.B.A.	1	
E11	VEP001E7A	MENU C.B.A.	1	
E16	VEP000Y2A	EVR CONNECT C.B.A.	1	
E18	VEP000Y4A	LCD OPEN SW C.B.A.	1	
E25	VEP22351A	GYRO C.B.A.	1	
E26	VEP04858A	SIDE JACK C.B.A.	1	
E27	VEP04815A	EXT MIC CH2 C.B.A.	1	
E28	VEP04865A	EXT MIC CH1 C.B.A.	1	
E29	VEP06E89B	MODE SW C.B.A.	1	
E30	VEP01923A	DC IN C.B.A.	1	
E31	VEP01915B	BATTERY C.B.A.	1	

FRAME & CASING PARTS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.



82
35
31
1
34
33
107
103
106
4
105
102
5
102
E23
111
48
49
52
50
51
53
E24
110
54
110
110
6
106
105
7
11
8
9
10
15
16
17
22
21
20
19
84
106
111
106
18
104
3
106
72
119
37
103
36
103
100
30
103
32
103
38
103
1
111
114
66
67
E22
E19
103
102
13
14
2
101
E21
E20
101
101
12
116
116
25
26
28
101
29
27
28
101
111
24
23
40
41
42
47
109
46
58
115
60
58
115
59
58
115
116
116
83
118
116
70
116
E1
116
43
44
45
108
108
39
116
116
E17
73
76
112
100
65
113
63
75
64
55
71
80
113
78
116
116
56
77
120
117
74
69
68
111
111
61
111
62
111
111

FRAME & CASING PARTS ASSEMBLY (2)

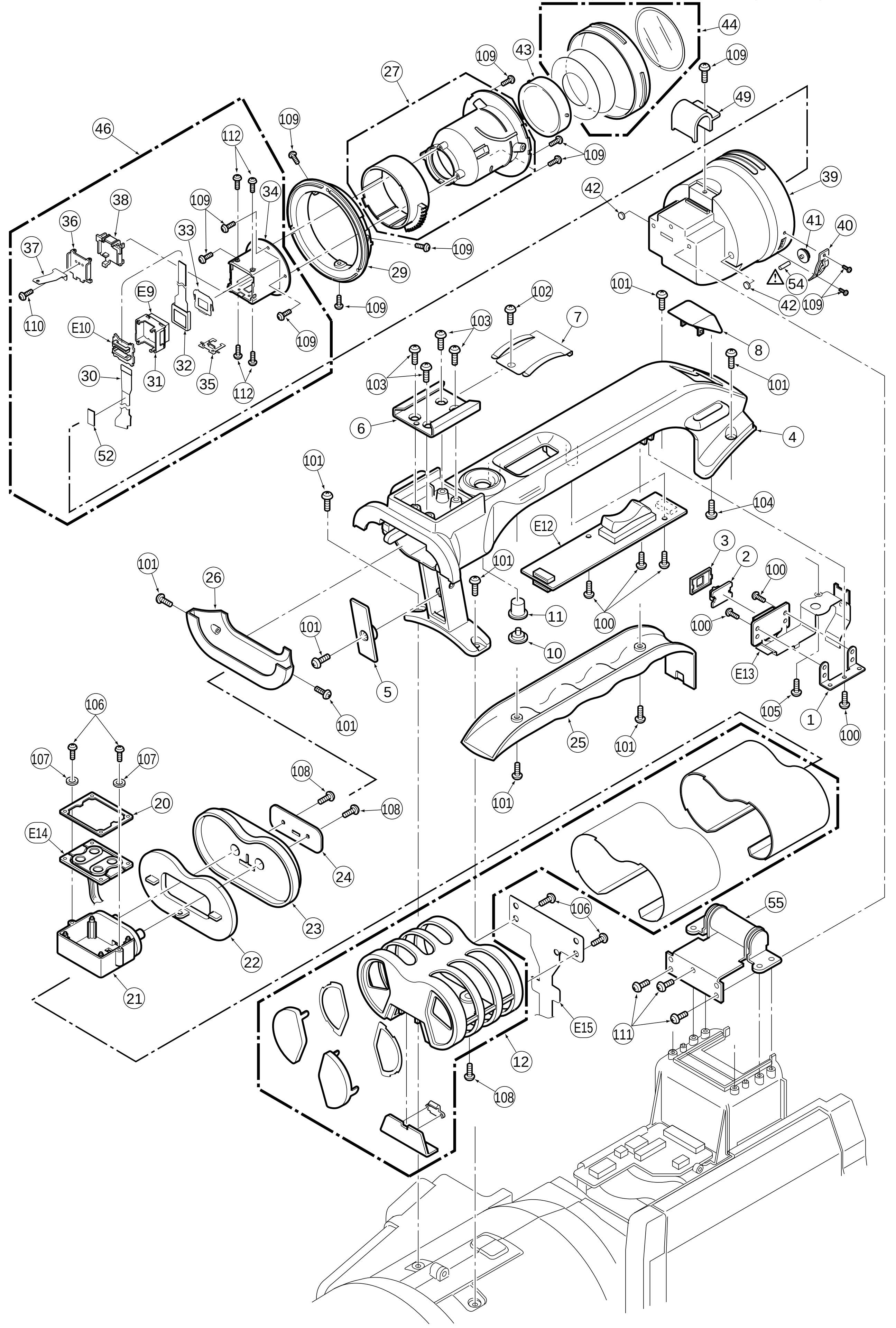
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMS7186	ROTATING SHAFT	2	
⚠ 2	VMZ3371	POWER INSULATION SHEET C	1	
3	VMX0531	CLATCH SPACER	1	
4	VGU9203	REC CHECK RUBBER BUTTON	1	
5	VGQ6903	ZOON LEVER CASE (R)	1	
6	VGQ6904	ZOON LEVER CASE (L)	1	
7	VGQ6996	ZOOM HOLDER (R)	1	
8	VGQ6997	ZOOM SPRING HOLDER PIECE	1	
9	VGQ6928	ZOOM SW HOLDER	1	
10	VMB3663	COIL SPRING ZOOM	1	
11	VGU9215	ZOOM LEVER	1	
12	VEE0U25	EJECT 1	1	
13	VMT1350	CASSETTE COVER GASKET	1	
14	VGP5801	SIDE CASE (L)	1	
15	VGU9206	EJECT KNOB	1	
16	VGU9216	EJECT LOCK BUTTON	1	
17	VMB3662	EJECT LOCK BUTTON SPRING	1	
18	VGQ6899	EJECT KNOB FIX PIECE	1	
19	VJF1469	H.P CAP	1	
20	VGU9204	POWER BUTTON	1	
21	VGU9205	S/S BUTTON	1	
22	VGU9201	POWER LOCK BUTTON	1	
23	VGQ6998	S/S BUTTON HOLDER	1	
24	VGQ6884	S/S HOLDER PIECE	1	
25	VMP7337	LOCK LEVER HOLDER ANGLE	1	
26	VMS7211	PIN	2	
27	VMP7339	CASSETTE LOCK LEVER	1	
28	VMS7203	EJECT LOCK PIN	2	
29	VMB3680	EJECT LOCK BUTTON SPRING	1	
30	VGH4733	GRIP COVER WINDOW	1	AG-DVX100AP/AN
30	VGH4734	GLIP COVER WINDOW	1	AG-DVX100AE/EN/DVC180AMC
31	VGP5804	CASSETTE COVER	1	
32	VGF0952	SHIELD PLATE	1	
33	VMP7338	CASSETTE COVER FIX ANGLE	1	
34	VMP6741	BELT HOLDER ANGLE	1	
35	VFB0215	GLIP BELT	1	
36	VMP7325	GLIP BELT ANGLE (FRONT)	1	
37	VMP7501	HOLDER ANGLE	1	
38	VMC1092	CASSETTE DOWN SPRING	1	
39	VMC1835	LINK DUMPER SPRING	1	
40	VMA9219	OPEN ANGLE (A)	1	
41	VMS5748	LINK PIN (B)	1	
42	VMA9220	OPEN LINK (B)	1	
43	VMA0P91	LINK ANGLE	1	
44	VMX2397	ARM STAND ROLLER	1	
45	VMS7293	ARM STAND PIN	1	
46	VMS5747	RINK PIN (A)	1	
47	VDP1653	ROTATION ROLLER	1	
48	VGP5998	TOP PANEL	1	
49	VGU9195	REC BUTTON	1	
50	VGU9210	REC/DUB BUTTON	2	
51	VGU9249	AUDIO MONITOR BUTTON (-)	1	
52	VGU9196	AUDIO MONITOR BUTTON (+)	1	
53	VMG1478	TOP SW BUTTON RUBBER	1	
54	VMP7432	TOP SUPPORT ANGLE	1	
55	VYK0Z96	LENS CAP ASS'Y	1	
56	VGH4614	LENS NAME PLATE	1	
58	VMG1463	DUSTPROOF RUBBER	3	
59	VMP7336	MECHA HOLDER ANGLE	1	
60	VMZ3295	MECHA BARRIER	1	
61	VGQ6885	BOTTOM COVER	1	
62	VKA0340	GLIP DUSTPROOF RUBBER	1	
63	VGU9255	HOOD FIX PIECE	1	
64	VYF2861	LENS HOOD ASS'Y	1	
65	VMP7605	LENS HOOD WINDOW	1	
66	VGQ7077	MECHA DUSTPROOF COVER	1	
67	VMT1348	CASSETTE COVER GASKET (U)	1	
68	VXP2360	FOCUS RING ASS'Y	1	
69	VDW0855	FIX RING ASS'Y	1	
70	VJF1472	FLEX. HOLDER	1	
71	VXW0635	CAMERA LENS ASS'Y	1	AG-DVX100AP/AN
71	VXW0636	CAMERA LENS ASS'Y	1	AG-DVX100AE/EN/DVC180AMC
72	VGQ7078	RUBBER CAP	1	
73	VEE0T92	INT MIC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
74	VXP2356	ZOOM RING	1	
75	VEE0T93	MIK IO	1	
76	VXY1738S	MECHA CHASSIS ASS'Y	1	(M)
77	L6DABBHC0001	ZOOM MOTOR ASS'Y	1	
78	EVAJGGUA3B14	ZOOM ENCODER	1	
80	VXQ1193	PRISM ASS'Y	1	
82	VYK1A07	GRIP COVER ASS'Y	1	AG-DVX100AP/AN
82	VYK1A08	GRIP COVER ASS'Y	1	AG-DVX100AE/EN/DVC180AMC
83	VMP7739	ANGLE	1	
84	VMZ3406	SHEET	1	
100	XUC15FX	E-RING	3	
101	XQN2+B3FN	SCREW	7	
102	XQN16+BJ3FZ	SCREW	4	
103	XQN2+BJ4FZ	SCREW	19	
104	VHN0194	SPACER	1	
105	XQN16+B4FZ	SCREW	2	
106	XQN16+BJ4FZ	SCREW	8	
107	XTB26+6GFZ	SCREW	2	
108	XYN2+C6	SCREW	2	
109	VMX2535	WASHER	1	
110	XQN2+B35FN	SCREW	4	
111	XQN2+B4FZ	SCREW	11	
112	VHD1546	SCREW	1	
113	XQN2+BJ5FZ	SCREW	4	
114	XQN2+C6FZ	SCREW	1	
115	VHD1100	SCREW	3	
116	XQN2+B4FN	SCREW	16	
117	VHD1538	SCREW	1	
118	VHD0866	SCREW	2	
119	XYN2+C6	SCREW	1	
120	XQN14+CJ4Z	SCREW	2	
E1	VEP03G55A	VTR C.B.A.	1	AG-DVX100AP/AN
E1	VEP03G55B	VTR C.B.A.	1	AG-DVX100AE/EN/DVC180AMC
E17	VEP000Y3B	VC CONNECT C.B.A.	1	
E19	VEP000Y6A	R JACK CONNECT C.B.A.	1	
E20	VEP000Y7A	EJECT C.B.A.	1	
E21	VEP04819A	REAR JACK C.B.A.	1	
E22	VEP06E96A	POWER SW C.B.A.	1	
E23	VEP06E90A	ZOOM SW C.B.A.	1	
E24	VEP000Y9A	TOP OP C.B.A.	1	

HANDLE & EVF PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.


44
109
43
109
27
109
49
46
109
112
109
34
39
38
109
42
36
33
41
40
37
109
29
E9
110
109
⚠
54
42
109
E10
109
101
102
103
7
8
30
31
32
35
112
103
101
6
4
52
101
104
E12
3
2
101
100
26
101
11
100
100
101
10
E13
5
101
105
1
100
25
101
106
107
107
101
108
20
108
E14
24
23
106
55
22
21
111
E15
12
108

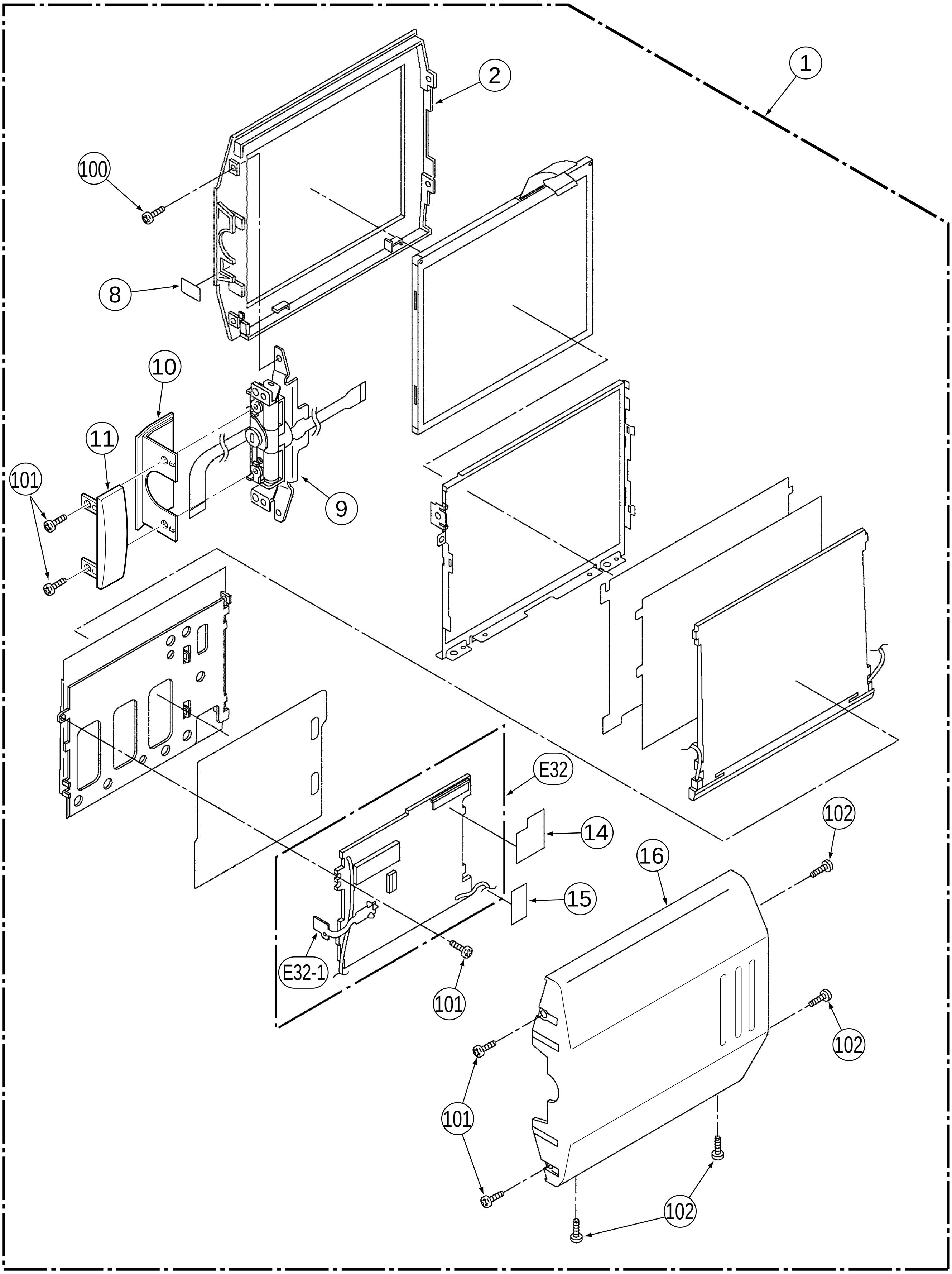
HANDLE & EVF PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP7328	HANDLE SLIDE ANGLE	1	
2	VGU9214	SLIDE KNOB	1	
3	VMG1460	SLIDE SW RUBBER COVER	1	
4	VKH0410	HANDLE	1	
5	VGQ6888	HANDLE FRONT COVER	1	
6	VJF1421	SHU	1	
7	VMC1697	SPRING	1	
8	VYF2863	REAR TALLY COVER ASS'Y	1	
10	VMG1479	HANDLE S/S BUTTON RUBBER	1	
11	VGU9207	HANDLE S/S BUTTON	1	
12	VYK0K76	MIC CASE ASS'Y	1	
20	VGQ6352	DUMPER HOLDER PIECE	1	
21	VGQ6891	MIC P.C.B. HOLDER	1	
22	VGQ6878	MIC RUBBER FIX PIECE	1	
23	VMG1459	MIC RUBBER HOLDER	1	
24	VMP7329	MIC HOLDER ANGLE	1	
25	VGQ7862	HANDLE COVER	1	AG-DVX100AP/AN
25	VGQ6873	HANDLE COVER	1	AG-DVX100AE/EN/DVC180AMC
26	VGQ6887	MIC CASE (LOWER)	1	
27	VYQ2773	HELICOID ASS'Y	1	
29	VGQ6890	EVF FILTER HOLDER	1	
30	VWJ1586	EVF FPC	1	
31	VMX2967	PB SPACER	1	
32	L5BDDXE00001	ACTIVE MATRIX LCD PANEL	1	
33	VGQ7088	LCD MASK	1	
34	VGQ6926	LCD CASE	1	
35	VMC1612	EVF EARTH SPRING	1	
36	VMP7360	EVF COVER ANGLE	1	
37	VMC1808	EVF EARTH SPRING	1	
38	VGQ6927	EVF COVER	1	
39	VGP5799	EVF CASE	1	
40	VGQ3855	DIOPTER ADJUST BRACKET	1	
41	VGU6944	EYE SIGHT ADJ. DIAL	1	
42	VMG1286	CUSHION RUBBER	2	
43	VXW0567	EVF LENS ASS'Y	1	
44	VYK0K51	EVF EYE CAP HOLDER ASS'Y	1	
46	VYQ2548	EVF ASS'Y	1	
49	VGQ6892	EVF HINGE COVER	1	
52	VMZ3361	SHEET	1	
⚠ 54	VMS7303	EYE SIGHT KNOB SHAFT	1	
55	VKC0594	VF HINGE	1	
100	XQN2+C4	SCREW	6	
101	XQN2+B4FZ	SCREW	9	
102	XSN2+4FC	SCREW	1	
103	XSS2+4FZ	SCREW	4	
104	XQN2+BJ3FZ	SCREW	1	
105	XYN2+J4	SCREW	1	
106	XQN2+BJ4	SCREW	4	
107	XWG2	WASHER	2	
108	XQN2+BJ5FZ	SCREW	3	
109	XQN2+BJ4FZ	SCREW	12	
110	XQN16+C25FZ	SCREW	1	
111	XQN2+CJ6FZ	SCREW	3	
112	XQN16+C3	SCREW	4	
E9	VEP28272B	EVF A C.B.A.	1	
E10	VEP28275B	EVF B C.B.A.	1	
E12	VEP06F70A	HANDLE 1 C.B.A.	1	
E13	VEP06F04A	HANDLE 2 C.B.A.	1	
E14	VEP04828A	MIC C.B.A.	1	
E15	VEP06E94A	F TALLY C.B.A.	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

LCD PARTS ASSEMBLY


1
2
100
8
10
11
101
9
E32
14
15
16
102
E32-1
101
102
101
102

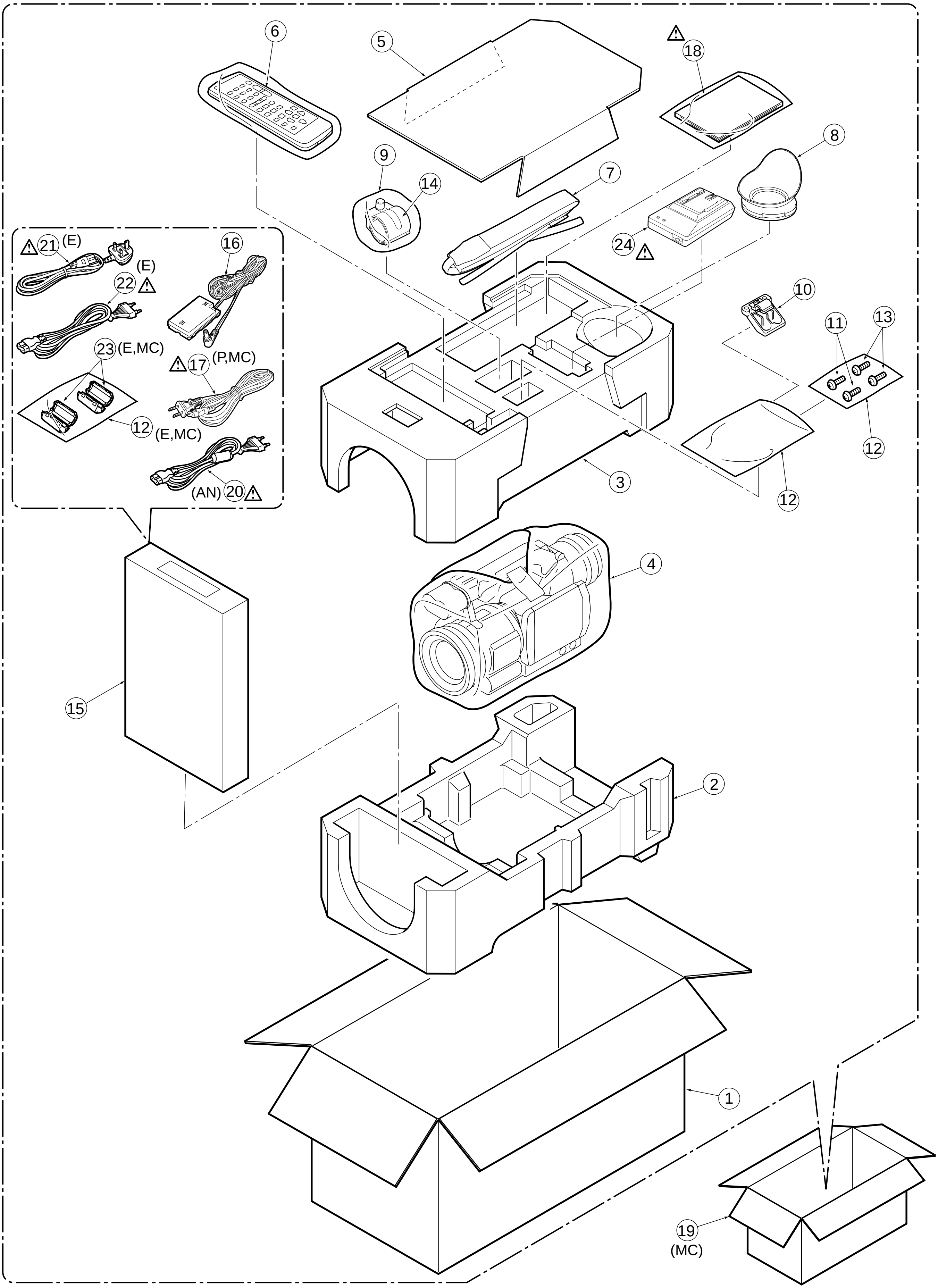
LCD PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1A13	LCD ASS'Y	1	AG-DVX100AP/AN/E/EN
1	VYK1A10	LCD ASS'Y	1	AG-DVC180AMC
2	VGP5803	LCD CASE (LOWER)	1	
8	VGQ4758	BLIND SHEET (A)	1	
9	VXD0357	LCD HINGE (2)	1	
10	VGQ6468	HINGE COVER (LOWER)	1	
11	VGQ7638	HINGE COVER (UPPER)	1	
14	VGQ6644	BARRIER (LCD)	1	
15	VGQ6297	BARRIER (LCD-B)	1	
16	VYK1A12	LCD CASE (UPPER) ASS'Y	1	AG-DVX100AP/AN/E/EN
16	VYK1A14	LCD CASE (UPPER) ASS'Y	1	AG-DVC180AMC
100	XQN16+B2FN	SCREW	1	
101	VHD1451	SCREW	5	
102	XQN16+B3FN	SCREW	4	
E32	VEP26257A	MONITOR C.B.A.	1	
E32-1	VEP06E29A	HALL SENSOR FLEX CARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.



⑥
⑤
⚠ ⑱
⑧
⑨
⑭
⑦
⑳ ⚠
⚠㉑ (E)
(E)
㉒ ⚠
⑯
㉓ (E,MC)
⚠⑰ (P,MC)
⑫ (E,MC)
(AN) ⑳ ⚠
㉔ ⚠
⑩
⑪
⑬
⑫
③
⑫
④
⑮
②
①
⑲
(MC)

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG0V37	PACKING CASE	1	AG-DVX100AP
1	VPG0U36	PACKING CASE	1	AG-DVX100AAN
1	VPG0V38	PACKING CASE	1	AG-DVX100AE
1	VPG0Y22	PACKING CASE	1	AG-DVX100AEN
1	VPG0T56	PACKING CASE	1	AG-DVC180AMC
2	VPN5826	CUSHION (LOWER)	1	
3	VPN5825	CUSHION (UPPER)	1	
4	VPF0884	POLYETHYLENE BAG	1	
5	VPN5930	PARTITION PLATE	1	
6	VFA0402	WIRELESS REMOTE CONTROL	1	
7	VFC3891	SHOULDER BELT	1	
8	VMG1458	EYE CAP	1	
9	VPF0179	POLYETHYLENE BAG	1	
10	VYC0890	MIC HOLDER ADAPTOR	1	
11	XSB4+6FZ	SCREW	2	
12	VPF1016	POLYETHYLENE BAG	2	PCS:3 AG-DVX100AE/EN/DVC180AMC
13	XSB4+12FXKS	SCREW	2	
14	VYC0870	MIC HOLDER ASS'Y	1	
15	VPK0825	ACCESSORY BOX	1	
16	VEK8722	DC CABLE ASS'Y	1	
⚠ 17	K2CB2CB00006	POWER CODE	1	AG-DVX100AP
⚠ 17	K2CA2DA00030	POWER CODE	1	AG-DVC180AMC
⚠ 18	VQT0F36	OPERATING INSTRUCTIONS	1	AG-DVX100AP
⚠ 18	VQT0E17	OPERATING INSTRUCTIONS	1	AG-DVX100AAN
⚠ 18	VQT0F37	OPERATING INSTRUCTIONS	1	AG-DVX100AE
⚠ 18	VQT0J59	OPERATING INSTRUCTIONS	1	AG-DVX100AEN
⚠ 18	VQT0F38	OPERATING INSTRUCTIONS	1	AG-DVC180AMC
19	VPG0V39	PACKING CASE	1	AG-DVC180AMC
⚠ 20	K2CP2DA00001	POWER CODE	1	AG-DVX100AAN
⚠ 21	K2CT3DA00001	POWER CODE	1	AG-DVX100AE/EN
⚠ 22	K2CR2DA00005	AC CORD	1	AG-DVX100AE/EN
23	J0KG00000013	FERRITE CORE	2	AG-DVX100AE/EN/DVC180AMC
⚠ 24	DE-852DB	AC ADAPTOR	1	AG-DVX100AP/AN
⚠ 24	DE-811DB	AC ADAPTOR	1	AG-DVX100AE/EN
⚠ 24	DE-811FB	AC ADAPTOR	1	AG-DVC180AMC

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AG-DVX100AP/AN)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP03G55A	VTR C.B.A.	1	(RTL)
■ E2	VEP23597A	CAMERA C.B.A.	1	(RTL)
■ E3	VEP01914B	POWER C.B.A.	1	(RTL)
■ E4	VEP01922A	POWER 2 C.B.A.	1	(RTL)
■ E5	VEP05395A	H/F AMP C.B.A.	1	(RTL)
■ E6	VEP04817A	R SIDE C.B.A.	1	(RTL)
■ E7	VEP06E92A	CAMERA OP1 C.B.A.	1	(RTL)
■ E8	VEP06E93A	CAMERA OP2 C.B.A.	1	(RTL)
■ E9	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E10	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E11	VEP001E7A	MENU C.B.A.	1	(RTL)
■ E12	VEP06F70A	HANDLE 1 C.B.A.	1	(RTL)
■ E13	VEP06F04A	HANDLE 2 C.B.A.	1	(RTL)
■ E14	VEP04828A	MIC C.B.A.	1	(RTL)
■ E15	VEP06E94A	F TALLY C.B.A.	1	(RTL)
■ E16	VEP000Y2A	EVR CONNECT C.B.A.	1	(RTL)
■ E17	VEP000Y3B	VC CONNECT C.B.A.	1	(RTL)
■ E18	VEP000Y4A	LCD OPEN SW C.B.A.	1	(RTL)
■ E19	VEP000Y6A	REAR JACK CONNECT C.B.A.	1	(RTL)
■ E20	VEP000Y7A	EJECT C.B.A.	1	(RTL)
■ E21	VEP04819A	REAR JACK C.B.A.	1	(RTL)
■ E22	VEP06E96A	POWER SW C.B.A.	1	(RTL)
■ E23	VEP06E90A	ZOOM SW C.B.A.	1	(RTL)
■ E24	VEP000Y9A	TOP OP C.B.A.	1	(RTL)
■ E25	VEP22351A	GYRO C.B.A.	1	(RTL)
■ E26	VEP04858A	SIDE JACK C.B.A.	1	(RTL)
■ E27	VEP04815A	EXT MIC CH2 C.B.A.	1	(RTL)
■ E28	VEP04865A	EXT MIC CH1 C.B.A.	1	(RTL)
■ E29	VEP06E89B	MODE SW C.B.A.	1	(RTL)
■ E30	VEP01923A	DC IN C.B.A.	1	(RTL)
■ E31	VEP01915B	BATTERY C.B.A.	1	(RTL)
■ E32	VEP26257A	MONITOR C.B.A.	1	(RTL)
■	VEP06E29A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP03G55A	VTR C.B.A.	1	(RTL)
C600	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C605	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C606,07	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C610	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C612	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	T.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	T.CAPACITOR CH6.3V 0.47U	1	
C626	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C627	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C628	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C629	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C633	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C666	ECJ3YB1C225K	C.CAPACITOR CH 16V 2.2M	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C681-90	F1L1E1060018	C.CAPACITOR CH 25V 10U	10	
C2001	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C2002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2004-08	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	5	
C2009	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C2011-14	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C2015	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2017	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2021	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2022	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2024	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2028	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2032	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2035	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2038	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2039	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2041	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2044	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2050	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2052	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C2055	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2101	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C2201	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2202,03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C2204	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C2205,06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C2207	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2208	ECJ0EC1H150J	C.CAPACITOR CH 50V 15P	1	
C2209	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2210	ECUX1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
C2211	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2212	ECUX1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
C2213	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C2214	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C2215	ECST0JY475Z	T.CAPACITOR CH6.3V 4.7U	1	
C2216-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2219	ECJ0EC1H270J	C.CAPACITOR CH 50V 27P	1	
C2220	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C2221	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C2222	ECUX1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
C2223	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2225	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2226	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2227	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2228-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2231,32	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2233	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2234	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2235,36	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C2237	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2238	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2239	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C2240,41	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C2242	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C2243	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2244-48	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	5	
C3001	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3003	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3004	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C3005	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3007	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3012	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3014	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3015	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3016	F3F0J2260001	T.CAPACITOR CH6.3V 22U	1	
C3017-27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	11	
C3029-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3037	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3038	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3039	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3044	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3045	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3046-49	F1H0J105A002	C.CAPACITOR CH6.3V 1U	4	
C3051	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3052	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3053	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3054	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3061	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3103	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3104	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3112	ECJ2YB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C3114	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3115	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3116	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3117	ECJ2YB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C3125	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3127	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ2YB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129,30	F1H0J105A002	C.CAPACITOR CH6.3V 1U	2	
C3131	ECJ2YB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3132	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3134	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3136,37	F1H0J105A002	C.CAPACITOR CH6.3V 1U	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C3143	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3145	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3146,47	F3G1A4760002	T.CAPACITOR CH 10V 47U	2	
C3148	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3202	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3203-07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3209	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C3211	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3220	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3221-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3226	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3227	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3229	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3252	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3253	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C3254	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3256	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3257	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3401,02	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3404-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	12	
C3416	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C3417,18	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3419	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C3420	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3421	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3501-03	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	3	
C3504,05	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	2	
C3511	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C3512,13	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	F1H0J105A002	C.CAPACITOR CH6.3V 1U	2	
C3516	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3521-23	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3556	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3557	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562,63	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3564	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3566	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3568	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3569	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C6503	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001-05	MA2SD2400L	DIODE	5	
D2007	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2010	MA111	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA110	DIODE	1	
D2201	MA110	DIODE	1	
D2501	MA2SD2400L	DIODE	1	
D3101	MA2S11100L	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FP2201	K1MN22B00029	CONNECTOR	1	
FP2202	K1MN09B00027	CONNECTOR	1	
FP2203	K1MN30B00037	CONNECTOR	1	
FP2204	K1KA08A00267	CONNECTOR (MALE)	1	
FP2208	K1MN22B00034	CONNECTOR	1	
FP5001	VJS3801D024	CONNECTOR (FEMALE)	1	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLJ000085	IC	1	
IC2002	C0EBK0000063	IC	1	
IC2003	C1ZBZ0001483	IC	1	
IC2004	C0BBAA000008	IC	1	
IC2005	C0BBBA000030	IC	1	
IC2007	C0JBAE000087	IC	1	
IC2008	C3EBFG000011	IC	1	
IC2009	C0FBBD000081	IC	1	
IC2011	C0CBAAA00012	IC	1	
IC2012	C0EBD0000146	IC	1	
IC2013	C0CBCAC00001	IC	1	
IC2014	C0CBABC00104	IC	1	
IC2015	C0JBAA000102	IC	1	
IC2201	TB6519AF	IC	1	
IC2202,03	UN224	TRANSISTOR-RESISTOR	2	
IC2204	C0JBAA000287	IC	1	
IC2205	TC7S86FU	IC	1	
IC2206	C0GBE0000007	IC	1	
IC2207	TA75S393F	IC	1	
IC2208	TC75W54FU	IC	1	
IC2209	C0JBAA000182	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZH000013	IC	1	
IC3005	C0ZBZ0000363	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C1BB00000820	IC	1	
IC3201	C1AB00001132	IC	1	
IC3202	C1AB00001612	IC	1	
IC3402	C0JBAZ001958	IC	1	
IC3404	XC62FP3202P	IC	1	
IC3405	C3BBFC000270	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	BA10324AF	IC	1	
IC3503,04	C1AB00000647	IC	2	
ID2001	VVVSI4169E	SOFTWARE	1	DOWNLOAD ONLY
ID2008	VVVSI4173B	SOFTWARE	1	DOWNLOAD ONLY
IP3403	VSI4157	IC	1	
L601	VLQ0426J3R9	COIL 3.9UH	1	G1C3R9J00004
L602,03	G1C100K00019	COIL 10UH	2	
L604	VLQ0807K100	COIL 10UH	1	G1C100K00024
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2003	G1C100K00019	COIL 10UH	1	
L3002	G1C100K00019	COIL 10UH	1	
L3006,07	G1C100K00019	COIL 10UH	2	
L3009	G1C100K00019	COIL 10UH	1	
L3011-14	G1C100K00019	COIL 10UH	4	
L3015	G1C101KA0031	COIL 100UH	1	
L3017	G1C100K00025	COIL 10UH	1	
L3021-24	G1C100K00019	COIL 10UH	4	
L3201	G1C100K00019	COIL 10UH	1	
L3401	G1C100K00019	COIL 10UH	1	
L3501	VLQ0807K100	COIL 10UH	1	G1C100K00024
L3505-10	VLQ0426J330	COIL 33UH	6	G1C330J00005
LB2002	J0JBC0000012	FILTER	1	
LB3001-04	VLF1315A102	FILTER	4	J0JHC0000015
LB3006	VLF1315A102	FILTER	1	J0JHC0000015
LB3101-03	J0JBC0000042	FILTER	3	
LB3201	VLF1315A102	FILTER	1	J0JHC0000015
LB3205	VLF1315A102	FILTER	1	J0JHC0000015
LB3207	VLF1315A102	FILTER	1	J0JHC0000015

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
LB3502,03	J0JBC0000012	FILTER	2	
P1001	K1KA50A00113	CONNECTOR (MALE)	1	
P1002	VJS3846A030	CONNECTOR (FEMALE)	1	
P2001	K1KAC0A00011	CONNECTOR (MALE)	1	
P2002	K1KBC0A00048	CONNECTOR (FEMALE)	1	
P2003	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2207	K1KB20A00021	CONNECTOR (FEMALE)	1	
P2209	VJP3658D030	CONNECTOR (MALE)	1	K1KA30A00090
P3401	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
Q601,02	B1ADGD000005	TRANSISTOR	2	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2007	B1ADGD000005	TRANSISTOR	1	
Q2012	2SD182000L	TRANSISTOR	1	
Q2013	2SB1218AHL	TRANSISTOR	1	
Q2201	2SB1462JRS	TRANSISTOR	1	
Q2202	2SD2216J0L	TRANSISTOR	1	
Q3101-03	2SD1979	TRANSISTOR	3	
Q3501	B1ADGD000005	TRANSISTOR	1	
Q3503,04	2SB1218AHL	TRANSISTOR	2	
Q3505	2SD1819A-R	TRANSISTOR	1	
QR602	XP0431400L	TRANSISTOR	1	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR511500L	TRANSISTOR	1	
QR2002	UN2130X	TRANSISTOR-RESISTOR	1	
QR2004	B1GBCFGJ0007	TRANSISTOR	1	
QR2005	B1GHCFJA0003	TRANSISTOR	1	
QR2006	B1GBCFNL0007	TRANSISTOR	1	
QR2010	B1GHCFJA0003	TRANSISTOR	1	
QR2011	B1GBCFJN0017	TRANSISTOR	1	
QR2012	B1GDCFJA0006	TRANSISTOR	1	
QR2201	UN9213	TRANSISTOR-RESISTOR	1	
QR2202	UNR9113J0L	TRANSISTOR	1	
QR2203	UN9213	TRANSISTOR-RESISTOR	1	
QR2204	UNR9113J0L	TRANSISTOR	1	
QR3101	B1GDCFLL0017	TRANSISTOR	1	
QR3102	UN9213	TRANSISTOR-RESISTOR	1	
QR3103	UNR221300L	TRANSISTOR	1	
QR3502	UN9213	TRANSISTOR-RESISTOR	1	
R601	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R602-05	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R608	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R612	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R613	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R621	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R632	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R634	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R635	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R636	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R648-50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R651	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R657	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R681-83	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R2001	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2002	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2005,06	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R2007	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2008,09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2011	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2012	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2013	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2014	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2015	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2016	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2019,20	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2021	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2022	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2023,24	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2027	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R2028	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2029	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R2030	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R2031	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2032	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2035	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036,37	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2038	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2039	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2040	ERJ8GEYG330	M.RESISTOR CH 1/8W 33	1	
R2041,42	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2044	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2045	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2048,49	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051-53	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R2054	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2055	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2056,57	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2058	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R2059	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2060	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R2061	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2062	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2063	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2064,65	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R2066	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2068	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2069	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2072	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2073	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2077,78	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2081	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2083	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2084	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2085	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R2086	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R2087	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2088-90	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2099,00	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2101-04	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2106-08	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R2109,10	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2112,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R2114	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2115	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2123	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2124,25	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2129	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R2131	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R2137	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2142	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2143	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2146	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2149	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2161	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2162	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2164	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2165,66	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2167	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2168	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2169	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2171	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2172	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2173	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2174	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2175,76	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2177	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2178	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2184	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2185	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R2187	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2188	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R2189	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2194	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2197	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2198	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2206	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2207	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2209	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2210,11	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2212	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2213	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2214	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2215	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2216	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217,18	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2219	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2220	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2221	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2222	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2223	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2224	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2225	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R2226	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2227	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R2228	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2229	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2230	ERJ8GEYJR33	M.RESISTOR CH 1/8W 0.33	1	
R2231	ERJ8GEYJR47	M.RESISTOR CH 1/8W 0.47	1	
R2232,33	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R2234	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2235	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R2236	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2237	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2238	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R2239	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R2240	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2241	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2242	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2243	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2244	ERJ8GEYJR27	M.RESISTOR CH 1/8W 0.27	1	
R2245	ERJ2RHD471	M.RESISTOR CH 1/16W 470	1	
R2246	EXBV8V331J	COMBI.R-R 330	1	
R2247,48	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2249	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3004	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3009	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3011-13	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R3014	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3016	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3017	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3019,20	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-24	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3061,62	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3101	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3102	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3104	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3105,06	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3114	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3130	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3133	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3136	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3137	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3149	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3151	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3152	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3162-64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R3166	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3168	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3169,70	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178,79	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3203	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R3204	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3205	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R3209	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3210	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3211,12	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	2	
R3213	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3215	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3216	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3217	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3218	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3229	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3401	EXBV8V102J	COMBI.R-R 1K	1	
R3403	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3406	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3409	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3410,11	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	2	
R3414	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3417	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3432	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3497	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3498	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3508	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3509	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3553,54	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3591	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3592	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3593	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3594	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R5092	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R5093-95	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R6515,16	ERJ3RBD271	M.RESISTOR CH 1/16W 270	2	
R6518	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R6521-23	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	D0YDR0000005
R9005	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9007-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R9016-19	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R9021,22	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R9024-28	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	5	
W3401-18	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	18	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
X2001	H0J270500024	CRYSTAL OSCILLATOR	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
■ E2	VEP23597A	CAMERA C.B.A.	1	(RTL)
C10-12	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C15	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C16	ECST1EY155	T.CAPACITOR CH 25V 1.5U	1	
C17	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C18	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C19,20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C22	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C23	ECST1EY155	T.CAPACITOR CH 25V 1.5U	1	
C24	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C25	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C26,27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C29	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C30	ECST1EY155	T.CAPACITOR CH 25V 1.5U	1	
C31	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C32	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C37-39	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C40-45	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C46-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	9	
C55-60	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C65	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C66	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C67-72	ECUX1A684KBV	C.CAPACITOR CH 10V 0.68U	6	
C73-75	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C103,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C105	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C106	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C107	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C108-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C113	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C114	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C118	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C119	ECST1CY475	T.CAPACITOR CH 16V 4.7U	1	
C120-22	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C123	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C126	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C128	ECST1EX475	T.CAPACITOR CH 25V 4.7U	1	
C129	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C130	ECST1VY105Z	T.CAPACITOR CH 35V 1U	1	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C133-36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C140	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C141	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C142	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C143-45	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	3	
C146,47	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C148,49	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C151-53	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C154	ECST1CY475	T.CAPACITOR CH 16V 4.7U	1	
C158-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C162	ECJ1VF1H104Z	C.CAPACITOR CH 50V 0.1U	1	
C170	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C171	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C173	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C174	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C176,77	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C178,79	F3G1A4760002	T.CAPACITOR CH 10V 47U	2	
C180	ECST1EX475	T.CAPACITOR CH 25V 4.7U	1	
C181-85	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
C191-98	F1L1E1060018	C.CAPACITOR CH 25V 10U	8	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C199	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C202,03	EEEHB1E331UP	E.CAPACITOR 25V 330P	2	
C205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C209	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C210-14	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C215	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1	
C216	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C217,18	F1H0J1050022	C.CAPACITOR CH6.3V 1U	2	
C219	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C220	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C301,02	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C308	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C310	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C311	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C313	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C314	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C315	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C319-22	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C325	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C327	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C328	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C329	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C330	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C337	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C338	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C343	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C344	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C348,49	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C350	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C351	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C352,53	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C362	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C363	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725-28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C731	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C732	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C763,64	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C765,66	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C767	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C768,69	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C770,71	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C772	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C774,75	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C799	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C802	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C803	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C806	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C807,08	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C809-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
D101	MA121	DIODE	1	
D102	MA132A	DIODE	1	
D103	MA121	DIODE	1	
D303	B0JCDD000002	DIODE	1	
D305	B0JCDD000002	DIODE	1	
IC1-C3	C1AB00001677	IC	3	
IC8-10	TC7W53FU	IC	3	
IC102	C0JBAB000004	IC	1	
IC103	C0JBAB000003	IC	1	
IC104,05	TC7SH32FU	IC	2	
IC106	C0JBAF000162	IC	1	
IC107	TC7SH32FU	IC	1	
IC108	C0JBAF000184	VHC	1	
IC109	TC7SH04F	IC	1	
IC110	C0JBAA000115	IC	1	
IC111,12	C0JBAB000543	IC	2	
IC114	C0CBADG00002	IC	1	
IC116	NJM431U	IC	1	C0DBEZC00003
IC117	UPD16510GR	IC	1	
IC118	C0JBAA000102	IC	1	
IC119	UPD16510GR	IC	1	
IC120	C0JBAE000140	IC	1	
IC121	C0ABCA000038	IC	1	
IC122	C0JBAD000071	IC	1	
IC123	TC7SH32FU	IC	1	
IC124	C0JBAA000102	IC	1	
IC125	C1ZBZ0002385	PLD	1	
IC126	C0CBCAF00006	IC	1	
IC127	C0CBABC00094	IC	1	
IC128	C0JBAB000004	IC	1	
IC301	MN103S33NSA	IC	1	
IC303	MN7GD02B5DB	IC	1	
IC304	TC7W74FU	IC	1	
IC307	C3EBGG000003	EEPROM	1	
IC308	C0JBAF000162	IC	1	
IC309	C0FBAF000029	IC	1	
IC313	TC7SH04F	IC	1	
IC315,16	TC7SH14FU	IC	2	
IC317	C0JBAA000102	IC	1	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC707	C1AB00000431	IC	1	
IC709	C0FBAG000033	IC	1	
IC711	C0CBAEC00006	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC720	C0GBF0000016	IC	1	
IC721	C1BB00000819	IC	1	
ID301	VVVSI4177C	SOFTWARE	1	DOWNLOAD ONLY
ID307	VVVSI4179E	SOFTWARE	1	DOWNLOAD ONLY
L4-L6	VLQ0807K100	COIL 10UH	3	G1C100K00024
L101	G1C4R7M00011	COIL 4.7UH	1	
L102	G1C100K00025	COIL 10UH	1	
L103,04	VLQ0807K100	COIL 10UH	2	G1C100K00024
L105	G1C100K00025	COIL 10UH	1	
L106,07	VLQ0807K100	COIL 10UH	2	G1C100K00024
L303	G1C4R7MA0031	COIL 4.7UH	1	
L304	VLQ0807K100	COIL 10UH	1	G1C100K00024
L307	VLQ0807K100	COIL 10UH	1	G1C100K00024
L309	G1C100K00019	COIL 10UH	1	
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703,04	VLQ0807K100	COIL 10UH	2	G1C100K00024
L706	VLQ0807K220	COIL 22UH	1	G1C220K00016
L708-10	VLQ0807K100	COIL 10UH	3	G1C100K00024
P1000	K1KB80A00092	CONNECTOR (FEMALE)	1	
P1001	VJS3846A030	CONNECTOR (FEMALE)	1	
P1002	VJS3791D015	CONNECTOR (FEMALE)	1	
P1003	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
P1004	K1MN39B00006	CONNECTOR	1	
P1006	K1MN51B00007	CONNECTOR	1	
Q102	2SB0970X0L	TRANSISTOR	1	
Q103	2SB709A-R	TRANSISTOR	1	
Q110	B1HBCFD00001	TRANSISTOR	1	
Q306	XN0460100L	TRANSISTOR-RESISTOR	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q709	2SD221000L	TRANSISTOR	1	
QR101-03	UN9212	TRANSISTOR-RESISTOR	3	
QR301	B1GDBEJG0002	TRANSISTOR	1	
QR303	UNR9215J0L	TRANSISTOR	1	
QR304	UNR9211J0L	TRANSISTOR	1	
QR705	UNR9211J0L	TRANSISTOR	1	
QR708,09	UNR9213J0L	TRANSISTOR	2	
QR711,12	UN9212	TRANSISTOR-RESISTOR	2	
QR722	UN9212	TRANSISTOR-RESISTOR	1	
R22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R23	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R64-66	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R75	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R78	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R81	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R104,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R112	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R113	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R114-20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R121	ERJ2GEJ180	TRANSISTOR	1	
R128	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R129	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R134	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R135	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R149	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R150,51	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R152	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R159-61	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	3	
R164,65	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R169	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R170	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R171	ERJ2RHD511	M.RESISTOR CH 1/16W 510	1	
R172	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R173	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R176	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R179,80	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R183	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R185	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R187	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R201	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R202	ERJ2RHD513	M.RESISTOR CH 1/16W 51K	1	
R203	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R204	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R206	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R207	ERJ2RHD513	M.RESISTOR CH 1/16W 51K	1	
R208	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R209	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R211	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R212	ERJ2RHD513	M.RESISTOR CH 1/16W 51K	1	
R213	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R214	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R220	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R221	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R222-24	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	3	
R225	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R226	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R233	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R255	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R256	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R257	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R262-64	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	3	
R265	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R301,02	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R303	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R304	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R306,07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R308,09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R310,11	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R312	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R313	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R314	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R317,18	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2	
R320	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R322	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R326	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R328	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R329-35	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	7	
R339	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R341	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R342	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R346	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R347,48	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2	
R350	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R352	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R354,55	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R356	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R357	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R361,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R367	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R368	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R370	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R371	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R373	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R375	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R376	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R377,78	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R391,92	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R427	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R429,30	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R433	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R439	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R466	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R470,71	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R481	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R486	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R488,89	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R490	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R493-09	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	17	
R510	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R511	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R512	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R519	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R520	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R521-26	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	6	
R527-32	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	6	
R533-36	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R542	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R543-45	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	3	
R546-48	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R549,50	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R551	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R553-55	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R556-60	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	5	
R561	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R562-66	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	5	
R571	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R573-76	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	4	
R578	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R587	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R709	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R712	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716-18	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	3	
R719	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R728	ERJ2GEJ154	M.RESISTOR CH 1/16W 150K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R736	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R738	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R747	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R748,49	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R753	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R754,55	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R757	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R760	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R765	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R780,81	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	2	
R804	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R807,08	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R813	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R814	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R816,17	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R823	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R824	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R825	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R830	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R837	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R873	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R881-83	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R897	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R900	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R901,02	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2	
R903	ERAS39J5R6	M.RESISTOR 5.6	1	
R904	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R907	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R908	ERJ2RHD122	M.RESISTOR CH 1/16W 1.2K	1	
R909	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R910,11	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	2	
R912	ERAS39J5R6	M.RESISTOR 5.6	1	
R917	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R939	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R941,42	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R952	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R953,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R975	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R978	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R979	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R990	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1068	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1087	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1115-17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1121-25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
X101	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X302	H0J270500024	CRYSTAL OSCILLATOR	1	
■ E3	VEP01914B	POWER C.B.A.	1	(RTL)
C1001,02	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C1011	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1012	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1013	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1014	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1021	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1022	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1023	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1024	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C1031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1032	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1033	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1034	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1042	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1043	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1044	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C1052	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1053	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C1054	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C1056	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1061	ECJ0EB1E152K	C.CAPACITOR CH 25V 1500P	1	
C1062	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C1063-66	F1J1A335A005	C.CAPACITOR CH 10V 3.3U	4	
C1071	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1074	F1G1A473A014	C.CAPACITOR CH 10V 0.047U	1	
C1101	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1102	F1H1A334A028	C.CAPACITOR CH 10V 0.33U	1	
C1103	F1G1A473A014	C.CAPACITOR CH 10V 0.047U	1	
C1104-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1107,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C1112	F1G1A473A014	C.CAPACITOR CH 10V 0.047U	1	
C1113	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1114	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1121,22	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	2	
C1123	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1124	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1132	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1133	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1134	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1141	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1142	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1143	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1144	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1151,52	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C1153	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1154	ECJ0EC1H820J	C.CAPACITOR CH 50V 82P	1	
C1155	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1171	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C1172	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1173	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1174	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1181	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C1215	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1221-27	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	7	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1231	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1239	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241,42	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C1248	ECST0JX476Z	T.CAPACITOR CH6.3V 47U	1	
C1281	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1312	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1322,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C1341	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1501,02	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1551,52	F1G1H2210001	C.CAPACITOR CH 50V 220P	2	
C1717-20	VCK0303K225	C.CAPACITOR 2.2U	4	
C1722	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1725,26	F1L2A1050004	C.CAPACITOR CH100V 0.2U	2	
C1728	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
D1051	MA111	DIODE	1	
D1053	B0JCCE000006	DIODE	1	
D1061,62	MA2S72800L	DIODE	2	
D1101	MA8100-M	DIODE	1	
D1151	MAZ81800HL	DIODE	1	
D1152	MA2S11100L	DIODE	1	
D1309	MA111	DIODE	1	
D1518	MA3S132E0L	DIODE	1	
D1519	B0ADDJ000011	DIODE	1	
D1520	MAZ80620HL	DIODE	1	
D1521	B0BC4R200013	DIODE	1	
D1522	MA8130-M	DIODE	1	
D1706	U1GU44	DIODE	1	
D1707	MA2S11100L	DIODE	1	
IC1001	C0DBAFA00012	IC	1	

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ IP1003	K5H8011A0004	FUSE	1	
⚠ IP1701	K5H1021A0004	IC	1	
L1001	G1C4R7MA0024	COIL 4.7UH	1	
L1011	A921CY-470M	FILTER	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1031	G1C680MA0024	COIL 68UH	1	
L1041	G1C220MA0011	COIL 22UH	1	
L1061	G1ZZ00000059	COIL	1	
L1062	G1ZZ00000060	COIL	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1131	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1171	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0031	COIL 4.7UH	2	
L1215	VLQ0319K4R7	COIL 4.7UH	1	
L1221	VLQ0319K4R7	COIL 4.7UH	1	
L1222	G1C4R7M00008	COIL 4.7UH	1	
L1223,24	G1C100K00019	COIL 10UH	2	
L1225,26	G1C4R7MA0031	COIL 4.7UH	2	
L1227	G1C100KA0002	COIL 10UH	1	
L1231	G1C100MA0031	COIL 100UH	1	
L1241	VLQ0319K4R7	COIL 4.7UH	1	
L1242	G1C4R7MA0002	COIL 4.7UH	1	
L1281	G1C100K00019	COIL 10UH	1	
L1311	G1C4R7MA0031	COIL 4.7UH	1	
L1321	VLQ0319K4R7	COIL 4.7UH	1	
L1341	G1C4R7MA0031	COIL 4.7UH	1	
L1501	J0JHC0000018	FILTER	1	
L1703	G1C100K00016	COIL 10UH	1	
L1706	G1C100K00019	COIL 10UH	1	
P1501	VEE0V03	POWER CABLE	1	
P1701	K1KB50B00025	CONNECTOR (FEMALE)	1	
P1702	K1KA30B00055	CONNECTOR (MALE)	1	
P1703	VJS3846A030	CONNECTOR (FEMALE)	1	
Q1011	FP102	TRANSISTOR	1	
Q1021	XN09D5700L	TRANSISTOR	1	
Q1022	B1DFCD000011	TRANSISTOR	1	
Q1031	XN09D5700L	TRANSISTOR	1	
Q1041	XN09D5700L	TRANSISTOR	1	
Q1042	B1DFCD000011	TRANSISTOR	1	
Q1051	2SB766A-R	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1101	B1ADCF000059	TRANSISTOR	1	
Q1341	B1ADGD000005	TRANSISTOR	1	
Q1342	XP1501	TRANSISTOR-RESISTOR	1	
Q1501	B2ABGP000001	THYRISTOR	1	
Q1702	XP0460100L	TRANSISTOR	1	
Q1704	2SJ278	TRANSISTOR	1	
QR1001	B1GDCFGN0009	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UN9213	TRANSISTOR-RESISTOR	1	
QR1161	B1GDCFJA0006	TRANSISTOR	1	
QR1162	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1011	ERJ2RHD682	M.RESISTOR CH 1/16W 6.8K	1	
R1012,13	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1014	ERJ2RHD391	M.RESISTOR CH 1/16W 390	1	
R1015	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1016	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1021	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1022,23	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1024	ERJ2RHD221	M.RESISTOR CH 1/16W 220	1	
R1025	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1026	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1031	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R1032,33	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1034	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1035	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1036	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1041	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R1042,43	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1044	ERJ2RHD391	M.RESISTOR CH 1/16W 390	1	
R1045	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1046	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1051	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R1052,53	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1054	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1055	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1056	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R1061,62	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	2	
R1074	ERJ2RHD391	M.RESISTOR CH 1/16W 390	1	
R1075	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1076	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1101	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1102	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1103	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1104	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	1	
R1107	ERJ2GEJ225	M.RESISTOR CH 1/16W 2.2M	1	
R1108	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1109	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1111	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1112	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R1121	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1122	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1126	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R1131	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1132	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1136	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1141	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1146	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R1151	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1152	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1153	ERJ2RHD243	M.RESISTOR CH 1/16W 24K	1	
R1154	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1155	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1156	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1161	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1171	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1172	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R1176	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R1179	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1182	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1221	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1309	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1323	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1341	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R1343	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1344	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1345	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1502	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1505	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1519	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1520	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1521	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1523	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1733	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1738	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R1739	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1746	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1749	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
T1051	G5D1A0000026	TRANSFORMER	1	
T1701	G5DYA0000051	TRANSFORMER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E4	VEP01922A	POWER 2 C.B.A.	1	(RTL)
C1251	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1252	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1391	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C1451	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1456	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1491	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1801,02	VCK0303K225	C.CAPACITOR 2.2U	2	
C1803	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1805	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1806	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1808	F1G1A473A014	C.CAPACITOR CH 10V 0.047U	1	
C1809	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1810	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C1812	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1813	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C1814	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1815	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C1816	VCK0303K225	C.CAPACITOR 2.2U	1	
C1821	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1823,24	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1827	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1830	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1831	VCK0303K225	C.CAPACITOR 2.2U	1	
C1832	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
D1801	MA111	DIODE	1	
D1802,03	MA2S11100L	DIODE	2	
D1805	MA3J70000L	DIODE	1	
D1807	MA2S11100L	DIODE	1	
D1808	MA8120-M	DIODE	1	
D1809,10	MAZ82700ML	DIODE	2	
D1811	MA3S132E0L	DIODE	1	
D1812	MA2S11100L	DIODE	1	
IC1391	C0DBZFZ00003	IC	1	
IC1801	BA9743AFV	IC	1	C0DBAZC00010
L1251	G1C100KA0004	COIL 10UH	1	
L1252	G1C100K00019	COIL 10UH	1	
L1801,02	J0JAC0000011	FILTER	2	
L1804	G1C331M00006	COIL 330UH	1	
L1805	G1C100K00019	COIL 10UH	1	
L1807	VLQ0319K100	COIL 10UH	1	G1C100K00023
P1801	K1KB30B00029	CONNECTOR (FEMALE)	1	
Q1351	2SD2216J0L	TRANSISTOR	1	
Q1391	2SB798	TRANSISTOR	1	
Q1451	2SD1819A-R	TRANSISTOR	1	
Q1452	XP1401	TRANSISTOR-RESISTOR	1	
Q1453	B1ADCF000059	TRANSISTOR	1	
Q1491	2SD2216J0L	TRANSISTOR	1	
Q1803	XP0460100L	TRANSISTOR	1	
Q1805	2SD1328-R	TRANSISTOR	1	
Q1806	B1DHCC000029	TRANSISTOR	1	
QR1352	UNR9111J0L	TRANSISTOR	1	
QR1451	UN9213	TRANSISTOR-RESISTOR	1	
QR1801	XP0121300L	TRANSISTOR	1	
QR1803	UN9213	TRANSISTOR-RESISTOR	1	
QR1804	UN9112J	TRANSISTOR	1	
QR1806	XP0111300L	TRANSISTOR	1	
R1451	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1452	ERJ2RHD391	M.RESISTOR CH 1/16W 390	1	
R1453	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1454	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1455	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1456	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1457,58	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R1491	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1492	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1493	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1494	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1801,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R1804	ERJ2RHD243	M.RESISTOR CH 1/16W 24K	1	
R1805	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R1806,07	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	2	
R1808	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1809	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1810	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R1811,12	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R1813,14	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	2	
R1815	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1816	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1817	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1819	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R1820	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R1821	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1822	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1823	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1824	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R1825	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1826	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R1827	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1828	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R1829	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1831	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1832	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1834	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1835	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R1836	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1837	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1842,43	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R1846	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1848	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1849	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1850	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1851	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
■ E5	VEP05395A	H/F AMP C.B.A.	1	(RTL)
C5001	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C5002,03	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	2	
C5004	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5006	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5008	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5016-18	F3F1C1060002	T.CAPACITOR CH 16V 10U	3	
C5021-24	F1G1H8R00003	C.CAPACITOR CH 50V 8P	4	
IC5001	AN3732FJMEFV	IC	1	
L5001	G1C101KA0031	COIL 100UH	1	
L5002,03	G1C100K00019	COIL 10UH	2	
P5001	K1MN08B00040	CONNECTOR	1	
R5001	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5007,08	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
		MISCELLANEOUS		
	VSC4639	SHIELD CASE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E6	VEP04817A	R SIDE C.B.A.	1	(RTL)
C4601	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4602	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4605	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4607	ECST1VV106R	T.CAPACITOR CH 35V 10U	1	
C4617	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C4618	ECST1AC226ZR	T.CAPACITOR CH 10V 22U	1	
C4619	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C4620	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4622,23	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	2	
D4601	MA142K	DIODE	1	
D4604,05	MA142WA	DIODE	2	
D4606,07	MA142K	DIODE	2	
D4608	MA142WA	DIODE	1	
D4609	MA142K	DIODE	1	
IC4601	TA75W558FU	IC	1	C0ABBA000042
IC4605	AN77L09M	IC	1	
P4601	K1KA04B00137	CONNECTOR (MALE)	1	
P4603	K1KA08B00137	CONNECTOR (MALE)	1	
P4604	K1MN51B00007	CONNECTOR	1	
P4605	K1KA02B00053	CONNECTOR (MALE)	1	
P4606	K1MN27B00034	CONNECTOR	1	
P4607	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
P4608	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
Q4601	2SD1819A-R	TRANSISTOR	1	
R4618	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4620	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4622,23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4625	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4627-29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4630	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4632,33	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4635	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4637	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4638	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4639	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4640,41	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4644,45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4690,91	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
SW4601	K0D123A00076	SWITCH	1	
SW4602	K0D122A00126	SWITCH	1	
SW4604,05	K0D122A00126	SWITCH	2	
SW4606,07	EVQQW101M	SWITCH	2	
SW4609-14	EVQQW101M	SWITCH	6	
VR4601,02	D2BBA14A0002	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0T92	INT MIC	1	
■ E7	VEP06E92A	CAMERA OP1 C.B.A.	1	(RTL)
D301-04	MA142WA	DIODE	4	
P301	K1MN10B00052	CONNECTOR	1	
SW301	K0D113B00029	SWITCH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
SW302-06	K0H1BA000442	SWITCH	5	
		MISCELLANEOUS		
	VMP7335	C.B.A. HOLDER ANGLE	1	
	XQN2+B3FN	SCREW	2	
■ E8	VEP06E93A	CAMERA OP2 C.B.A.	1	(RTL)
D351,52	MA142WA	DIODE	2	
D353,54	MA142K	DIODE	2	
SW351,52	K0E112A00108	SWITCH	2	
SW353	K0H1BA000251	SWITCH	1	
SW355	EVQQW101M	SWITCH	1	
SW356	K9AA01500015	SWITCH	1	
		MISCELLANEOUS		
	VGQ6917	MENU ROTATION KNOB SHEET	1	
	VGU9198	ROTATION KNOB	1	
	XQN2+B3FN	SCREW	3	
	VMP7353	W. BAL ANGLE	1	
	VMP7342	IRIS JOG ANGLE	1	
■ E9	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E10	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E11	VEP001E7A	MENU C.B.A.	1	(RTL)
D610-12	MA142WA	DIODE	3	
D614-16	MA142WA	DIODE	3	
P610	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
SW608	K0H1ZA000001	SWITCH	1	
SW609	EVQQWS01W	SWITCH	1	
■ E12	VEP06F70A	HANDLE 1 C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C451,52	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C453	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C454,55	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C456,57	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	
C458,59	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C460,61	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C462	ECST1AX226Z	T.CAPACITOR CH 10V 22U	1	
C463	ECST1CC226Z	T.CAPACITOR CH 16V 22U	1	
C464	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
D451-53	MA142K	DIODE	3	
IC451,52	TA75W01FU	IC	2	
P451	VJS3801B020	CONNECTOR (FEMALE)	1	
P452	K1MN10B00052	CONNECTOR	1	
P453	K1MN07B00070	CONNECTOR	1	
Q451,52	2SD1819A-R	TRANSISTOR	2	
Q453	2SD1824	TRANSISTOR	1	
R453,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R457,58	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R459-62	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R463,64	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R465,66	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R467,68	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R469	ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R481	ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R482,83	ERJ3GEYJ623	M.RESISTOR CH 1/16W 62K	2	
R486	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R487	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R488	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R489,90	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R491-94	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	4	
SW451	RSH1A77ZA-A	SWITCH	1	K0H1BA000104
SW452,53	K0H1BA000433	SWITCH	2	
		MISCELLANEOUS		
	VGQ6880	HANDLE S/S HOLDER	1	
	VGQ6881	T/W BUTTON HOLDER	1	
	VGU9208	HANDLE T/W BUTTON	1	
	VMS7185	HANDLE ZOOM SHAFT	1	
	XUC15FP	E-RING	2	
	XQN2+CJ5	SCREW	2	
	VMG1480	HANDLE T/W BUTTON RUBBER	1	
■ E13	VEP06F04A	HANDLE 2 C.B.A.	1	(RTL)
C471	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C472	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
D471,72	MA142K	DIODE	2	
D473	B3AAB0000129	LED	1	
IC471	VEK8283	REMOTE CONTROL RECEIVER	1	B3RZB0000001
R471	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R472	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
SW471	K0D123A00035	SWITCH	1	
W471,72	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E14	VEP04828A	MIC C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
	VWJ1590	INT MIC FLEX.	1	
■ E15	VEP06E94A	F TALLY C.B.A.	1	(RTL)
C401	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C402	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
D401	B3AAB0000129	LED	1	
IC401	VEK8283	REMOTE CONTROL RECEIVER	1	B3RZB0000001
R401	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R402	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
		MISCELLANEOUS		
	VMZ3344	INSULATION PLATE	1	
	VGF0957	MIC SHADING SHEET	1	
■ E16	VEP000Y2A	EVR CONNECT C.B.A.	1	(RTL)
B51	VSB0407	BATTERY	1	
P51	K1KA30B00055	CONNECTOR (MALE)	1	
P52	K1MN51B00007	CONNECTOR	1	
P53	K1MN16A00038	CONNECTOR	1	
P54	VJS3791B013	CONNECTOR (FEMALE)	1	
P55	K1KA60A00065	CONNECTOR	1	
P56	K1KBC0B00009	CONNECTOR (FEMALE)	1	
R52	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E17	VEP000Y3B	VC CONNECT C.B.A.	1	(RTL)
P551	K1KBC0A00051	CONNECTOR (FEMALE)	1	
P552	VJS3826C024	CONNECTOR (FEMALE)	1	
P553	K1MN12B00105	CONNECTOR	1	
P556	K1KA04B00137	CONNECTOR (MALE)	1	
P557	K1KA80A00098	CONNECTOR (MALE)	1	
P559	K1MN18A00026	CONNECTOR	1	
R551,52	D0YDR0000011	M.RESISTOR CH 1/8W 0	2	
■ E18	VEP000Y4A	LCD OPEN SW C.B.A.	1	(RTL)
SW701	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VMP7354	C.B.A. HOLDER ANGLE	1	
	XQN2+B3FN	SCREW	1	
	VEE0U27	LCD OPEN CABLE	1	
■ E19	VEP000Y6A	REAR JACK CONNECT C.B.A.	1	(RTL)
P251	K1KB30A00128	CONNECTOR (FEMALE)	1	
■ E20	VEP000Y7A	EJECT C.B.A.	1	(RTL)
P651	K1KA02B00053	CONNECTOR (MALE)	1	
SW651	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VMP7334	EJECT C.B.A. HOLDER ANGLE	1	
	XQN2+B3FN	SCREW	2	
■ E21	VEP04819A	REAR JACK C.B.A.	1	(RTL)
C49011,12	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
J49012	VJJ0522	JACK	1	K2HC103B0082
J49013	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
L49013,14	VLF1315A102	FILTER	2	J0JHC0000015
P49011	K1KA02A00237	CONNECTOR (MALE)	1	
P49012	K1MN16B00112	CONNECTOR	1	
R49011-16	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
T49012	VLF1394	FILTER	1	J0MAB0000077

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E22	VEP06E96A	POWER SW C.B.A.	1	(RTL)
D502	MA142WA	DIODE	1	
P501	K1MN10B00070	CONNECTOR	1	
P502	K1MN06B00013	CONNECTOR	1	
SW501	VMG0763	SWITCH	1	
SW502	K0L1BA000015	SWITCH	1	
SW503	K0L1BA000037	SWITCH	1	
		MISCELLANEOUS		
	VMP7434	C.B.A. HOLDER ANGLE	1	
	XQN2+B3FN	SCREW	2	
■ E23	VEP06E90A	ZOOM SW C.B.A.	1	(RTL)
C201,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
D202	MA142K	DIODE	1	
SW201	EVQQWS01W	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E24	VEP000Y9A	TOP OP C.B.A.	1	(RTL)
D601-03	MA142WA	DIODE	3	
D605	MA142WA	DIODE	1	
SW601-04	EVQQWS01W	SWITCH	4	
SW606	EVQQWS01W	SWITCH	1	
■ E25	VEP22351A	GYRO C.B.A.	1	(RTL)
C101	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C102,03	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	
C104-07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	4	
C108,09	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	2	
C112	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C113	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	1	
C116,17	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	2	
C120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C124	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
IC103	C0ABCA000042	IC	1	
IC104	C0JBAS000065	IC	1	
IC105	C0ABAA000046	IC	1	
IC106	L2ES00000010	SENSOR UNIT	1	
IC107	L2ES00000011	SENSOR UNIT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L101	G1C100K00019	COIL 10UH	1	
L103,04	G1C100K00019	COIL 10UH	2	
P101	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R101,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R103-06	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R107	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R110	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R111,12	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R113,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R115-18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R119,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
		MISCELLANEOUS		
	XQN2+B4FN	SCREW	1	
	VMP7352	GYRO ANGLE	1	
■ E26	VEP04858A	SIDE JACK C.B.A.	1	(RTL)
C4451,52	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C4453,54	D4ED1220A006	VARISTORS	2	
C44711	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C44712,13	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	2	
D4451	MA3062M	DIODE	1	
D44711	PH310	DIODE	1	B3GA00000001
D44712	MA132WA	DIODE	1	
J4401	K1FA104A0011	CONNECTOR	1	
J4451	K2HA303A0019	JACK	1	
J4452	K2HZ104A0002	S TERMINAL JACK	1	
L4402,03	J0MAB0000110	FILTER	2	
L4452,53	VLF1315A102	FILTER	2	J0JHC0000015
P4401	K1MN22B00034	CONNECTOR	1	
Q44711	2SD10300SL	TRANSISTOR	1	
Q44712	2SD1819A-R	TRANSISTOR	1	
R4401,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4451-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4460-62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4463	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4464	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4468,69	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R44711	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	D0GD225JA003
R44712	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R44713	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R44714	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R44715	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
TH4401	D4CC11030012	THERMISTOR	1	
■ E27	VEP04815A	EXT MIC CH2 C.B.A.	1	(RTL)
C4003,04	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C4006	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C4009,10	ECA1HEN4R7	E.CAPACITOR 50V 4.7U	2	
C4013	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4016,17	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4019	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4020	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4022	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4026	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4030	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4031	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4032	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4034	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4035	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4036	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4107	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
D4001	MA142WK	DIODE	1	
D4002,03	MA3J14300L	DIODE	2	
D4007	MA142K	DIODE	1	
IC4001	NJM2122M	IC	1	
IC4002	TA75W558FU	IC	1	C0ABBA000042
IC4007	TC7W53FU	IC	1	
IC4008	AN77L09M	IC	1	
J4101	K1AB103A0007	CONNECTOR (MALE)	1	
L4001,02	VLQ0163J100	COIL 10UH	2	G1C100J00001
L4101	VLF1315A102	FILTER	1	J0JHC0000015
L4103	VLF1315A102	FILTER	1	J0JHC0000015
L4110	VLF1315A102	FILTER	1	J0JHC0000015
P4001	K1KA20A00048	CONNECTOR (MALE)	1	
P4002	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
Q4002	2SB1220-R	TRANSISTOR	1	
QR4002	UNR521300L	TRANSISTOR	1	
QR4004	UNR521300L	TRANSISTOR	1	
QR4006	UNR521300L	TRANSISTOR	1	
QR4008	UNR511300L	TRANSISTOR	1	
QR4010	UNR521300L	TRANSISTOR	1	
R4006	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4009,10	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R4015,16	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R4019,20	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	
R4021	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4022	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4024	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4030	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R4031,32	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4040	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4044,45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4048,49	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4051	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4053	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4055	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R4057	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4060	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4061	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4062	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4066	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
SW4001	K0D142A00023	SWITCH	1	
■ E28	VEP04865A	EXT MIC CH1 C.B.A.	1	(RTL)
C4001,02	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C4005	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C4007,08	ECA1HEN4R7	E.CAPACITOR 50V 4.7U	2	
C4011	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4012	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4014,15	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4018	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4021	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4023	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4024	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4025	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4027,28	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4029	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4033	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4037	EEVHB1H3R3	E.CAPACITOR 50V 3.3U	1	
C4038	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4108	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
D4004,05	MA3J14300L	DIODE	2	
D4006	MA142K	DIODE	1	
IC4003	AN77L09M	IC	1	
IC4004	NJM2122M	IC	1	
IC4005	TA75W558FU	IC	1	C0ABBA000042
IC4006	TC7W53FU	IC	1	
J4102	K1AB103A0007	CONNECTOR (MALE)	1	
L4003,04	VLQ0163J100	COIL 10UH	2	G1C100J00001
L4105	VLF1315A102	FILTER	1	J0JHC0000015
L4107,08	VLF1315A102	FILTER	2	J0JHC0000015
P4003	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
Q4001	2SB1220-R	TRANSISTOR	1	
Q4003	2SD1819A-R	TRANSISTOR	1	
Q4004	2SD1824	TRANSISTOR	1	
QR4001	UNR521300L	TRANSISTOR	1	
QR4003	UNR521300L	TRANSISTOR	1	
QR4005	UNR521300L	TRANSISTOR	1	
QR4007	UNR511300L	TRANSISTOR	1	
QR4009	UNR521300L	TRANSISTOR	1	
R4001	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4007,08	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R4011,12	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R4013	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4014	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4017,18	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	
R4023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4029	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R4033,34	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4035	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4036	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4037	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4039	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4042,43	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4046,47	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4050	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4052	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4054	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R4056	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4058	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4059	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4063	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4064	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4067	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
SW4002	K0D142A00023	SWITCH	1	
■ E29	VEP06E89B	MODE SW C.B.A.	1	(RTL)
D151	MA142WA	DIODE	1	
D152-56	MA142K	DIODE	5	
D157	B3AAB0000037	DIODE	1	
D158	B3ABB0000086	LED	1	
D160	MA142K	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P152	VJS3791B013	CONNECTOR (FEMALE)	1	
R154	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R155	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
SW151	K0G119A00024	SWITCH	1	
SW152,53	K0H1BA000251	SWITCH	2	
		MISCELLANEOUS		
	VMZ3345	LED INSULATION PLATE	1	
■ E30	VEP01923A	DC IN C.B.A.	1	(RTL)
J31	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E31	VEP01915B	BATTERY C.B.A.	1	(RTL)
C2	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C3	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
D1	NSD03A20	DIODE	1	
⚠ IP1	K5H312300003	FUSE	1	
L2	J0MAB0000060	FILTER	1	
P1	K1KA03B00102	CONNECTOR (MALE)	1	
■ E32	VEP26257A	MONITOR C.B.A.	1	(RTL)
■	VEP06E29A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257A
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	T.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 100UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

ELECTRICAL REPLACEMENT PARTS LIST (AG-DVX100AE/EN, DVC180AMC)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP03G55B	VTR C.B.A.	1	(RTL)
■ E2	VEP23597B	CAMERA C.B.A.	1	(RTL)
■ E3	VEP01914B	POWER C.B.A.	1	(RTL)
■ E4	VEP01922A	POWER 2 C.B.A.	1	(RTL)
■ E5	VEP05395A	H/F AMP C.B.A.	1	(RTL)
■ E6	VEP04817B	R SIDE C.B.A.	1	(RTL)
■ E7	VEP06E92A	CAMERA OP1 C.B.A.	1	(RTL)
■ E8	VEP06E93A	CAMERA OP2 C.B.A.	1	(RTL)
■ E9	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E10	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E11	VEP001E7A	MENU C.B.A.	1	(RTL)
■ E12	VEP06F70A	HANDLE 1 C.B.A.	1	(RTL)
■ E13	VEP06F04A	HANDLE 2 C.B.A.	1	(RTL)
■ E14	VEP04828A	MIC C.B.A.	1	(RTL)
■ E15	VEP06E94A	F TALLY C.B.A.	1	(RTL)
■ E16	VEP000Y2A	EVR CONNECT C.B.A.	1	(RTL)
■ E17	VEP000Y3B	VC CONNECT C.B.A.	1	(RTL)
■ E18	VEP000Y4A	LCD OPEN SW C.B.A.	1	(RTL)
■ E19	VEP000Y6A	REAR JACK CONNECT C.B.A.	1	(RTL)
■ E20	VEP000Y7A	EJECT C.B.A.	1	(RTL)
■ E21	VEP04819A	REAR JACK C.B.A.	1	(RTL)
■ E22	VEP06E96A	POWER SW C.B.A.	1	(RTL)
■ E23	VEP06E90A	ZOOM SW C.B.A.	1	(RTL)
■ E24	VEP000Y9A	TOP OP C.B.A.	1	(RTL)
■ E25	VEP22351A	GYRO C.B.A.	1	(RTL)
■ E26	VEP04858A	SIDE JACK C.B.A.	1	(RTL)
■ E27	VEP04815A	EXT MIC CH2 C.B.A.	1	(RTL)
■ E28	VEP04865A	EXT MIC CH1 C.B.A.	1	(RTL)
■ E29	VEP06E89B	MODE SW C.B.A.	1	(RTL)
■ E30	VEP01923A	DC IN C.B.A.	1	(RTL)
■ E31	VEP01915B	BATTERY C.B.A.	1	(RTL)
■ E32	VEP26257A	MONITOR C.B.A.	1	(RTL)
■	VEP06E29A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP03G55B	VTR C.B.A.	1	(RTL)
C600	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C605	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C606,07	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C610	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C612	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	T.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	T.CAPACITOR CH6.3V 0.47U	1	
C626	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C627	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C628	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C629	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C633	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C666	ECJ3YB1C225K	C.CAPACITOR CH 16V 2.2M	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C681-90	F1L1E1060018	C.CAPACITOR CH 25V 10U	10	
C2001	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C2002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2004-08	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	5	
C2009	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C2011-14	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C2015	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2017	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2021	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2022	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2024	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2028	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2032	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2035	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2038	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2039	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2041	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2044	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2050	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2052	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C2055	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2101	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C2201	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2202,03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C2204	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C2205,06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C2207	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2208	ECJ0EC1H150J	C.CAPACITOR CH 50V 15P	1	
C2209	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2210	ECUX1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
C2211	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2212	ECUX1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
C2213	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C2214	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C2215	ECST0JY475Z	T.CAPACITOR CH6.3V 4.7U	1	
C2216-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2219	ECJ0EC1H270J	C.CAPACITOR CH 50V 27P	1	
C2220	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C2221	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C2222	ECUX1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
C2223	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2225	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2226	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2227	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2228-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2231,32	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2233	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C2234	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2235,36	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C2237	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2238	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2239	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C2240,41	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C2242	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C2243	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2244-48	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	5	
C3001	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3003	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3004	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C3005	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3007	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3012	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3014	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3015	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3016	F3F0J2260001	T.CAPACITOR CH6.3V 22U	1	
C3017-27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	11	
C3029-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3037	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3038	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3039	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3044	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3045	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3046-49	F1H0J105A002	C.CAPACITOR CH6.3V 1U	4	
C3051	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3052	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3053	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3054	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3061	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3103	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3104	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3112	ECJ2YB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C3114	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3115	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3116	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3117	ECJ2YB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C3125	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3127	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ2YB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129,30	F1H0J105A002	C.CAPACITOR CH6.3V 1U	2	
C3131	ECJ2YB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3132	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3134	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3136,37	F1H0J105A002	C.CAPACITOR CH6.3V 1U	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C3143	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3145	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3146,47	F3G1A4760002	T.CAPACITOR CH 10V 47U	2	
C3148	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3202	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3203-07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3209	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C3211	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3220	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3221-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3226	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3227	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3229	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3252	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3253	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C3254	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3256	F1H0J105A002	C.CAPACITOR CH6.3V 1U	1	
C3257	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3401,02	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3404-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	12	
C3416	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C3417,18	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3419	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C3420	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3421	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3501-03	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	3	
C3504,05	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	2	
C3511	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	1	
C3512,13	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	F1H0J105A002	C.CAPACITOR CH6.3V 1U	2	
C3516	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3521-23	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3556	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C3557	F1G1A104A014	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562,63	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3564	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3566	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3568	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3569	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C6503	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001-05	MA2SD2400L	DIODE	5	
D2007	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2010	MA111	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA110	DIODE	1	
D2201	MA110	DIODE	1	
D2501	MA2SD2400L	DIODE	1	
D3101	MA2S11100L	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FP2201	K1MN22B00029	CONNECTOR	1	
FP2202	K1MN09B00027	CONNECTOR	1	
FP2203	K1MN30B00037	CONNECTOR	1	
FP2204	K1KA08A00267	CONNECTOR (MALE)	1	
FP2208	K1MN22B00034	CONNECTOR	1	
FP5001	VJS3801D024	CONNECTOR (FEMALE)	1	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLJ000085	IC	1	
IC2002	C0EBK0000063	IC	1	
IC2003	C1ZBZ0001483	IC	1	
IC2004	C0BBAA000008	IC	1	
IC2005	C0BBBA000030	IC	1	
IC2007	C0JBAE000087	IC	1	
IC2008	C3EBFG000011	IC	1	
IC2009	C0FBBD000081	IC	1	
IC2011	C0CBAAA00012	IC	1	
IC2012	C0EBD0000146	IC	1	
IC2013	C0CBCAC00001	IC	1	
IC2014	C0CBABC00104	IC	1	
IC2015	C0JBAA000102	IC	1	
IC2201	TB6519AF	IC	1	
IC2202,03	UN224	TRANSISTOR-RESISTOR	2	
IC2204	C0JBAA000287	IC	1	
IC2205	TC7S86FU	IC	1	
IC2206	C0GBE0000007	IC	1	
IC2207	TA75S393F	IC	1	
IC2208	TC75W54FU	IC	1	
IC2209	C0JBAA000182	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZH000013	IC	1	
IC3005	C0ZBZ0000363	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C1BB00000820	IC	1	
IC3201	C1AB00001132	IC	1	
IC3202	C1AB00001612	IC	1	
IC3402	C0JBAZ001958	IC	1	
IC3404	XC62FP3202P	IC	1	
IC3405	C3BBFC000270	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	BA10324AF	IC	1	
IC3503,04	C1AB00000647	IC	2	
ID2001	VVVSI4170E	SOFTWARE	1	DOWNLOAD ONLY
ID2008	VVVSI4174B	SOFTWARE	1	DOWNLOAD ONLY
IP3403	VSI4157	IC	1	
L601	VLQ0426J3R9	COIL 3.9UH	1	G1C3R9J00004
L602,03	G1C100K00019	COIL 10UH	2	
L604	VLQ0807K100	COIL 10UH	1	G1C100K00024
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2003	G1C100K00019	COIL 10UH	1	
L3002	G1C100K00019	COIL 10UH	1	
L3006,07	G1C100K00019	COIL 10UH	2	
L3009	G1C100K00019	COIL 10UH	1	
L3011-14	G1C100K00019	COIL 10UH	4	
L3015	G1C101KA0031	COIL 100UH	1	
L3017	G1C100K00025	COIL 10UH	1	
L3021-24	G1C100K00019	COIL 10UH	4	
L3201	G1C100K00019	COIL 10UH	1	
L3401	G1C100K00019	COIL 10UH	1	
L3501	VLQ0807K100	COIL 10UH	1	G1C100K00024
L3505-10	VLQ0426J330	COIL 33UH	6	G1C330J00005
LB2002	J0JBC0000012	FILTER	1	
LB3001-04	VLF1315A102	FILTER	4	J0JHC0000015
LB3006	VLF1315A102	FILTER	1	J0JHC0000015
LB3101-03	J0JBC0000042	FILTER	3	
LB3201	VLF1315A102	FILTER	1	J0JHC0000015
LB3205	VLF1315A102	FILTER	1	J0JHC0000015
LB3207	VLF1315A102	FILTER	1	J0JHC0000015

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
LB3502,03	J0JBC0000012	FILTER	2	
P1001	K1KA50A00113	CONNECTOR (MALE)	1	
P1002	VJS3846A030	CONNECTOR (FEMALE)	1	
P2001	K1KAC0A00011	CONNECTOR (MALE)	1	
P2002	K1KBC0A00048	CONNECTOR (FEMALE)	1	
P2003	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2207	K1KB20A00021	CONNECTOR (FEMALE)	1	
P2209	VJP3658D030	CONNECTOR (MALE)	1	K1KA30A00090
P3401	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
Q601,02	B1ADGD000005	TRANSISTOR	2	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2007	B1ADGD000005	TRANSISTOR	1	
Q2012	2SD182000L	TRANSISTOR	1	
Q2013	2SB1218AHL	TRANSISTOR	1	
Q2201	2SB1462JRS	TRANSISTOR	1	
Q2202	2SD2216J0L	TRANSISTOR	1	
Q3101-03	2SD1979	TRANSISTOR	3	
Q3501	B1ADGD000005	TRANSISTOR	1	
Q3503,04	2SB1218AHL	TRANSISTOR	2	
Q3505	2SD1819A-R	TRANSISTOR	1	
QR602	XP0431400L	TRANSISTOR	1	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR511500L	TRANSISTOR	1	
QR2002	UN2130X	TRANSISTOR-RESISTOR	1	
QR2004	B1GBCFGJ0007	TRANSISTOR	1	
QR2005	B1GHCFJA0003	TRANSISTOR	1	
QR2006	B1GBCFNL0007	TRANSISTOR	1	
QR2010	B1GHCFJA0003	TRANSISTOR	1	
QR2011	B1GBCFJN0017	TRANSISTOR	1	
QR2012	B1GDCFJA0006	TRANSISTOR	1	
QR2201	UN9213	TRANSISTOR-RESISTOR	1	
QR2202	UNR9113J0L	TRANSISTOR	1	
QR2203	UN9213	TRANSISTOR-RESISTOR	1	
QR2204	UNR9113J0L	TRANSISTOR	1	
QR3101	B1GDCFLL0017	TRANSISTOR	1	
QR3102	UN9213	TRANSISTOR-RESISTOR	1	
QR3103	UNR221300L	TRANSISTOR	1	
QR3502	UN9213	TRANSISTOR-RESISTOR	1	
R601	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R602-05	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R608	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R612	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R613	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R621	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R632	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R634	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R635	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R636	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R648-50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R651	ERJ2GEJ154	M.RESISTOR CH 1/16W 150K	1	
R657	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R681-83	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R2001	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2002	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2005,06	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R2007	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2008,09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2011	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2012	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2013	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2014	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2015	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2016	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2019,20	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2021	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2022	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2023,24	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2027	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R2028	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2029	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R2030	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R2031	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2032	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2035	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036,37	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2038	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2039	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2040	ERJ8GEYG330	M.RESISTOR CH 1/8W 33	1	
R2041,42	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2044	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2045	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2048,49	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051-53	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R2054	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2055	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2056,57	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2058	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R2059	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2060	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R2061	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2062	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2063	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2064,65	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R2066	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2068	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2069	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2072	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2073	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2077,78	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2081	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2083	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2084	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2085	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R2086	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R2087	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2088-90	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2099,00	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2101-04	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2106-08	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R2109,10	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2112,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R2114	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2115	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2123	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2124,25	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2129	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R2131	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R2137	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2142	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2143	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2146	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2149	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2161	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2162	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2164	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2165,66	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2167	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2168	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2169	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2171	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2172	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2173	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2174	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2175,76	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2177	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2178	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2184	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2185	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R2186	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2187	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2188	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
R2189	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2194	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2197	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2198	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2206	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2207	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2209	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2210,11	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2212	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2213	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2214	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2215	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2216	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217,18	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2219	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2220	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2221	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2222	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2223	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2224	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2225	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2226	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2227	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R2228	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2229	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2230	ERJ8GEYJR33	M.RESISTOR CH 1/8W 0.33	1	
R2231	ERJ8GEYJR47	M.RESISTOR CH 1/8W 0.47	1	
R2232,33	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R2234	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2235	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R2236	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2237	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2238	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R2239	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R2240	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2241	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2242	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2243	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2244	ERJ8GEYJR27	M.RESISTOR CH 1/8W 0.27	1	
R2245	ERJ2RHD471	M.RESISTOR CH 1/16W 470	1	
R2246	EXBV8V331J	COMBI.R-R 330	1	
R2247,48	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2249	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3004	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3009	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3011-13	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R3014	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3016	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3017	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3019,20	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-24	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3061,62	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3101	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3102	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3104	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3105,06	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3114	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3130	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3133	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3136	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3137	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3149	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3151	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3152	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3162-64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R3166	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3168	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3169,70	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178,79	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3203	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R3204	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3205	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R3209	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3210	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3211,12	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	2	
R3213	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3215	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3216	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3217	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3218	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3229	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3401	EXBV8V102J	COMBI.R-R 1K	1	
R3403	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3406	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3409	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3410,11	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	2	
R3414	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3416	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3432	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3497	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3498	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3508	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3509	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3553,54	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3591	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3592	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R3593	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3594	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R5092	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
R5093-95	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R6515,16	ERJ3RBD271	M.RESISTOR CH 1/16W 270	2	
R6518	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	1	
R6521-23	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	D0YDR0000005
R9005	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9007-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R9016-19	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	4	
R9021,22	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R9024-28	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	5	
W3401-18	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	18	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
X2001	H0J270500024	CRYSTAL OSCILLATOR	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
■ E2	VEP23597B	CAMERA C.B.A.	1	(RTL)
C10-12	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C15	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C16	ECST1EY155	T.CAPACITOR CH 25V 1.5U	1	
C17	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C18	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C19,20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C22	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C23	ECST1EY155	T.CAPACITOR CH 25V 1.5U	1	
C24	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C25	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C26,27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C29	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C30	ECST1EY155	T.CAPACITOR CH 25V 1.5U	1	
C31	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C32	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C37-39	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C40-45	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C46-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	9	
C55-60	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C65	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C66	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C67-72	ECUX1A684KBV	C.CAPACITOR CH 10V 0.68U	6	
C73-75	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C103,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C105	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C106	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C107	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C108-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C113	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C114	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C118	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C119	ECST1CY475	T.CAPACITOR CH 16V 4.7U	1	
C120-22	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C123	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C126	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C128	ECST1EX475	T.CAPACITOR CH 25V 4.7U	1	
C129	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C130	ECST1VY105Z	T.CAPACITOR CH 35V 1U	1	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C133-36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C140	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C141	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C142	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C143-45	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	3	
C146,47	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C148,49	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C151-53	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C154	ECST1CY475	T.CAPACITOR CH 16V 4.7U	1	
C158-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C162	ECJ1VF1H104Z	C.CAPACITOR CH 50V 0.1U	1	
C170	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C171	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C173	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C174	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C176,77	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C178,79	F3G1A4760002	T.CAPACITOR CH 10V 47U	2	
C180	ECST1EX475	T.CAPACITOR CH 25V 4.7U	1	
C181-85	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C191-98	F1L1E1060018	C.CAPACITOR CH 25V 10U	8	
C199	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C202,03	EEEHB1E331UP	E.CAPACITOR 25V 330P	2	
C205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C209	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C210-14	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C215	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1	
C216	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C217,18	F1H0J1050022	C.CAPACITOR CH6.3V 1U	2	
C219	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C220	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C301,02	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C308	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C310	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C311	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C313	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C314	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C315	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C319-22	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C325	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C327	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C328	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C329	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C330	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C337	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C338	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C343	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C344	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C348,49	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C350	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C351	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C352,53	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C362	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C363	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725-28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C731	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C732	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C763,64	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C765,66	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C767	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C768,69	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C770,71	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C772	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C774,75	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C799	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C802	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C803	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C806	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C807,08	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C809-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
D101	MA121	DIODE	1	
D102	MA132A	DIODE	1	
D103	MA121	DIODE	1	
D303	B0JCDD000002	DIODE	1	
D305	B0JCDD000002	DIODE	1	
IC1-C3	C1AB00001677	IC	3	
IC8-10	TC7W53FU	IC	3	
IC102	C0JBAB000004	IC	1	
IC103	C0JBAB000003	IC	1	
IC104,05	TC7SH32FU	IC	2	
IC106	C0JBAF000162	IC	1	
IC107	TC7SH32FU	IC	1	
IC108	C0JBAF000184	VHC	1	
IC109	TC7SH04F	IC	1	
IC110	C0JBAA000115	IC	1	
IC111,12	C0JBAB000543	IC	2	
IC114	C0CBADG00002	IC	1	
IC116	NJM431U	IC	1	C0DBEZC00003
IC117	UPD16510GR	IC	1	
IC118	C0JBAA000102	IC	1	
IC119	UPD16510GR	IC	1	
IC120	C0JBAE000140	IC	1	
IC121	C0ABCA000038	IC	1	
IC122	C0JBAD000071	IC	1	
IC123	TC7SH32FU	IC	1	
IC124	C0JBAA000102	IC	1	
IC125	C1ZBZ0002385	PLD	1	
IC126	C0CBCAF00006	IC	1	
IC127	C0CBABC00094	IC	1	
IC128	C0JBAB000004	IC	1	
IC301	MN103S33NSA	IC	1	
IC303	MN7GD02B5DB	IC	1	
IC304	TC7W74FU	IC	1	
IC307	C3EBGG000003	EEPROM	1	
IC308	C0JBAF000162	IC	1	
IC309	C0FBAF000029	IC	1	
IC313	TC7SH04F	IC	1	
IC315,16	TC7SH14FU	IC	2	
IC317	C0JBAA000102	IC	1	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC707	C1AB00000431	IC	1	
IC709	C0FBAG000033	IC	1	
IC711	C0CBAEC00006	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC719	C0CBADC00034	IC	1	
IC720	C0GBF0000016	IC	1	
IC721	C1BB00000819	IC	1	
ID301	VVVSI4178C	SOFTWARE	1	DOWNLOAD ONLY
ID307	VVVSI4180E	SOFTWARE	1	DOWNLOAD ONLY
L4-L6	VLQ0807K100	COIL 10UH	3	G1C100K00024
L101	G1C4R7M00011	COIL 4.7UH	1	
L102	G1C100K00025	COIL 10UH	1	
L103,04	VLQ0807K100	COIL 10UH	2	G1C100K00024
L105	G1C100K00025	COIL 10UH	1	
L106,07	VLQ0807K100	COIL 10UH	2	G1C100K00024
L303	G1C4R7MA0031	COIL 4.7UH	1	
L304	VLQ0807K100	COIL 10UH	1	G1C100K00024
L307	VLQ0807K100	COIL 10UH	1	G1C100K00024
L309	G1C100K00019	COIL 10UH	1	
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703,04	VLQ0807K100	COIL 10UH	2	G1C100K00024
L706	VLQ0807K220	COIL 22UH	1	G1C220K00016
L708-10	VLQ0807K100	COIL 10UH	3	G1C100K00024
P1000	K1KB80A00092	CONNECTOR (FEMALE)	1	
P1001	VJS3846A030	CONNECTOR (FEMALE)	1	
P1002	VJS3791D015	CONNECTOR (FEMALE)	1	
P1003	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
P1004	K1MN39B00006	CONNECTOR	1	
P1006	K1MN51B00007	CONNECTOR	1	
Q102	2SB0970X0L	TRANSISTOR	1	
Q103	2SB709A-R	TRANSISTOR	1	
Q110	B1HBCFD00001	TRANSISTOR	1	
Q306	XN0460100L	TRANSISTOR-RESISTOR	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q709	2SD221000L	TRANSISTOR	1	
QR101-03	UN9212	TRANSISTOR-RESISTOR	3	
QR301	B1GDBEJG0002	TRANSISTOR	1	
QR303	UNR9215J0L	TRANSISTOR	1	
QR304	UNR9211J0L	TRANSISTOR	1	
QR705	UNR9211J0L	TRANSISTOR	1	
QR708,09	UNR9213J0L	TRANSISTOR	2	
QR711,12	UN9212	TRANSISTOR-RESISTOR	2	
QR722	UN9212	TRANSISTOR-RESISTOR	1	
R22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R23	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R64-66	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R75	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R78	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R81	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R104,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R112	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R113	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R114-20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R121	ERJ2GEJ180	TRANSISTOR	1	
R128	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R129	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R134	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R135	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R149	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R150,51	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R152	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R159-61	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	3	
R164,65	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R169	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R170	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R171	ERJ2RHD511	M.RESISTOR CH 1/16W 510	1	
R172	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R173	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R176	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R179,80	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R183	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R185	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R187	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R201	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R202	ERJ2RHD513	M.RESISTOR CH 1/16W 51K	1	
R203	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R204	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R206	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R207	ERJ2RHD513	M.RESISTOR CH 1/16W 51K	1	
R208	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R209	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R211	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R212	ERJ2RHD513	M.RESISTOR CH 1/16W 51K	1	
R213	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
R214	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R220	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R221	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R222-24	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	3	
R225	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R226	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R233	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R255	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R256	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R257	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R262-64	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	3	
R265	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R301,02	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R303	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R304	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R306,07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R308,09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R310,11	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R312	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R313	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R314	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R317,18	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2	
R320	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R322	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R326	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R328	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R329-35	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	7	
R339	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R341	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R342	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R346	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R347,48	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2	
R350	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R352	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R354,55	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R356	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R357	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R361,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R367	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R368	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R370	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R371	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R373	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R375	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R376	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R377,78	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R391,92	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R427	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R429,30	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R433	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R439	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R466	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R470,71	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R481	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R486	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R488,89	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R490	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R493-09	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	17	
R510	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R511	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R512	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R519	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R520	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R521-26	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	6	
R527-32	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	6	
R533-36	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	4	
R542	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R543-45	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	3	
R546-48	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R549,50	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R551	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R553-55	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R556-60	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	5	
R561	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R562-66	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	5	
R571	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R573-76	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	4	
R578	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R587	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R709	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R712	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716-18	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	3	
R719	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R728	ERJ2GEJ154	M.RESISTOR CH 1/16W 150K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R736	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R738	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R747	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R748,49	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R753	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R754,55	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R757	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R760	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R765	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R780,81	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	2	
R804	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R807,08	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R813	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R814	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R816,17	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R823	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R824	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R825	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R830	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R837	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R873	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R881-83	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R897	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R900	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R901,02	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2	
R903	ERAS39J5R6	M.RESISTOR 5.6	1	
R904	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R907	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R908	ERJ2RHD122	M.RESISTOR CH 1/16W 1.2K	1	
R909	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R910,11	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	2	
R912	ERAS39J5R6	M.RESISTOR 5.6	1	
R917	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R939	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R941,42	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R952	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R953,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R975	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R978	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R979	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R990	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1068	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1087	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1115-17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1121-25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
X101	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X302	H0J270500024	CRYSTAL OSCILLATOR	1	
■ E3	VEP01914B	POWER C.B.A.	1	(RTL)
C1001,02	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C1011	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1012	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1013	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1014	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1021	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1022	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1023	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1024	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C1031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1032	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1033	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1034	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1042	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1043	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1044	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C1052	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1053	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C1054	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C1056	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1061	ECJ0EB1E152K	C.CAPACITOR CH 25V 1500P	1	
C1062	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C1063-66	F1J1A335A005	C.CAPACITOR CH 10V 3.3U	4	
C1071	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1074	F1G1A473A014	C.CAPACITOR CH 10V 0.047U	1	
C1101	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1102	F1H1A334A028	C.CAPACITOR CH 10V 0.33U	1	
C1103	F1G1A473A014	C.CAPACITOR CH 10V 0.047U	1	
C1104-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1107,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C1112	F1G1A473A014	C.CAPACITOR CH 10V 0.047U	1	
C1113	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1114	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1121,22	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	2	
C1123	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1124	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1132	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1133	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1134	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1141	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1142	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1143	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1144	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1151,52	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C1153	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1154	ECJ0EC1H820J	C.CAPACITOR CH 50V 82P	1	
C1155	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1171	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C1172	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1173	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1174	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1181	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C1215	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1221-27	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	7	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1231	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1239	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241,42	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C1248	ECST0JX476Z	T.CAPACITOR CH6.3V 47U	1	
C1281	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1312	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1322,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C1341	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1501,02	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1551,52	F1G1H2210001	C.CAPACITOR CH 50V 220P	2	
C1717-20	VCK0303K225	C.CAPACITOR 2.2U	4	
C1722	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1725,26	F1L2A1050004	C.CAPACITOR CH100V 0.2U	2	
C1728	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
D1051	MA111	DIODE	1	
D1053	B0JCCE000006	DIODE	1	
D1061,62	MA2S72800L	DIODE	2	
D1101	MA8100-M	DIODE	1	
D1151	MAZ81800HL	DIODE	1	
D1152	MA2S11100L	DIODE	1	
D1309	MA111	DIODE	1	
D1518	MA3S132E0L	DIODE	1	
D1519	B0ADDJ000011	DIODE	1	
D1520	MAZ80620HL	DIODE	1	
D1521	B0BC4R200013	DIODE	1	
D1522	MA8130-M	DIODE	1	
D1706	U1GU44	DIODE	1	
D1707	MA2S11100L	DIODE	1	

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1001	C0DBAFA00012	IC	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
⚠ IP1701	K5H1021A0004	IC	1	
L1001	G1C4R7MA0024	COIL 4.7UH	1	
L1011	A921CY-470M	FILTER	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1031	G1C680MA0024	COIL 68UH	1	
L1041	G1C220MA0011	COIL 22UH	1	
L1061	G1ZZ00000059	COIL	1	
L1062	G1ZZ00000060	COIL	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1131	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1171	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0031	COIL 4.7UH	2	
L1215	VLQ0319K4R7	COIL 4.7UH	1	
L1221	VLQ0319K4R7	COIL 4.7UH	1	
L1222	G1C4R7M00008	COIL 4.7UH	1	
L1223,24	G1C100K00019	COIL 10UH	2	
L1225,26	G1C4R7MA0031	COIL 4.7UH	2	
L1227	G1C100KA0002	COIL 10UH	1	
L1231	G1C100MA0031	COIL 100UH	1	
L1241	VLQ0319K4R7	COIL 4.7UH	1	
L1242	G1C4R7MA0002	COIL 4.7UH	1	
L1281	G1C100K00019	COIL 10UH	1	
L1311	G1C4R7MA0031	COIL 4.7UH	1	
L1321	VLQ0319K4R7	COIL 4.7UH	1	
L1341	G1C4R7MA0031	COIL 4.7UH	1	
L1501	J0JHC0000018	FILTER	1	
L1703	G1C100K00016	COIL 10UH	1	
L1706	G1C100K00019	COIL 10UH	1	
P1501	VEE0V03	POWER CABLE	1	
P1701	K1KB50B00025	CONNECTOR (FEMALE)	1	
P1702	K1KA30B00055	CONNECTOR (MALE)	1	
P1703	VJS3846A030	CONNECTOR (FEMALE)	1	
Q1011	FP102	TRANSISTOR	1	
Q1021	XN09D5700L	TRANSISTOR	1	
Q1022	B1DFCD000011	TRANSISTOR	1	
Q1031	XN09D5700L	TRANSISTOR	1	
Q1041	XN09D5700L	TRANSISTOR	1	
Q1042	B1DFCD000011	TRANSISTOR	1	
Q1051	2SB766A-R	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1101	B1ADCF000059	TRANSISTOR	1	
Q1341	B1ADGD000005	TRANSISTOR	1	
Q1342	XP1501	TRANSISTOR-RESISTOR	1	
Q1501	B2ABGP000001	THYRISTOR	1	
Q1702	XP0460100L	TRANSISTOR	1	
Q1704	2SJ278	TRANSISTOR	1	
QR1001	B1GDCFGN0009	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UN9213	TRANSISTOR-RESISTOR	1	
QR1161	B1GDCFJA0006	TRANSISTOR	1	
QR1162	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1011	ERJ2RHD682	M.RESISTOR CH 1/16W 6.8K	1	
R1012,13	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1014	ERJ2RHD391	M.RESISTOR CH 1/16W 390	1	
R1015	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1016	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1021	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1022,23	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1024	ERJ2RHD221	M.RESISTOR CH 1/16W 220	1	
R1025	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1026	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1031	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R1032,33	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1034	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1035	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1036	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1041	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R1042,43	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1044	ERJ2RHD391	M.RESISTOR CH 1/16W 390	1	
R1045	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1046	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1051	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R1052,53	ERJ2RKD820	M.RESISTOR CH 1/16W 82	2	
R1054	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1055	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1056	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R1061,62	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	2	
R1074	ERJ2RHD391	M.RESISTOR CH 1/16W 390	1	
R1075	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1076	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1101	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1102	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1103	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1104	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	1	
R1107	ERJ2GEJ225	M.RESISTOR CH 1/16W 2.2M	1	
R1108	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1109	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1111	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1112	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R1121	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1122	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1126	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R1131	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1132	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1136	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1141	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1146	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R1151	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1152	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1153	ERJ2RHD243	M.RESISTOR CH 1/16W 24K	1	
R1154	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1155	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1156	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1161	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1171	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1172	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R1176	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R1179	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1182	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1221	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1309	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1323	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1341	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R1343	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1344	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1345	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1502	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1505	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1519	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1520	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1521	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1523	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1733	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1738	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R1739	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1746	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1749	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
T1051	G5D1A0000026	TRANSFORMER	1	
T1701	G5DYA0000051	TRANSFORMER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E4	VEP01922A	POWER 2 C.B.A.	1	(RTL)
C1251	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1252	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1391	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C1451	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1456	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1491	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1801,02	VCK0303K225	C.CAPACITOR 2.2U	2	
C1803	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1805	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1806	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1808	F1G1A473A014	C.CAPACITOR CH 10V 0.047U	1	
C1809	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1810	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C1812	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1813	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C1814	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1815	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C1816	VCK0303K225	C.CAPACITOR 2.2U	1	
C1821	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1823,24	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1827	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1830	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1831	VCK0303K225	C.CAPACITOR 2.2U	1	
C1832	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
D1801	MA111	DIODE	1	
D1802,03	MA2S11100L	DIODE	2	
D1805	MA3J70000L	DIODE	1	
D1807	MA2S11100L	DIODE	1	
D1808	MA8120-M	DIODE	1	
D1809,10	MAZ82700ML	DIODE	2	
D1811	MA3S132E0L	DIODE	1	
D1812	MA2S11100L	DIODE	1	
IC1391	C0DBZFZ00003	IC	1	
IC1801	BA9743AFV	IC	1	C0DBAZC00010
L1251	G1C100KA0004	COIL 10UH	1	
L1252	G1C100K00019	COIL 10UH	1	
L1801,02	J0JAC0000011	FILTER	2	
L1804	G1C331M00006	COIL 330UH	1	
L1805	G1C100K00019	COIL 10UH	1	
L1807	VLQ0319K100	COIL 10UH	1	G1C100K00023
P1801	K1KB30B00029	CONNECTOR (FEMALE)	1	
Q1351	2SD2216J0L	TRANSISTOR	1	
Q1391	2SB798	TRANSISTOR	1	
Q1451	2SD1819A-R	TRANSISTOR	1	
Q1452	XP1401	TRANSISTOR-RESISTOR	1	
Q1453	B1ADCF000059	TRANSISTOR	1	
Q1491	2SD2216J0L	TRANSISTOR	1	
Q1803	XP0460100L	TRANSISTOR	1	
Q1805	2SD1328-R	TRANSISTOR	1	
Q1806	B1DHCC000029	TRANSISTOR	1	
QR1352	UNR9111J0L	TRANSISTOR	1	
QR1451	UN9213	TRANSISTOR-RESISTOR	1	
QR1801	XP0121300L	TRANSISTOR	1	
QR1803	UN9213	TRANSISTOR-RESISTOR	1	
QR1804	UN9112J	TRANSISTOR	1	
QR1806	XP0111300L	TRANSISTOR	1	
R1451	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1452	ERJ2RHD391	M.RESISTOR CH 1/16W 390	1	
R1453	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1454	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1455	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1456	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1457,58	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R1491	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1492	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1493	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1494	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1801,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R1804	ERJ2RHD243	M.RESISTOR CH 1/16W 24K	1	
R1805	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R1806,07	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	2	
R1808	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1809	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1810	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R1811,12	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R1813,14	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	2	
R1815	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1816	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1817	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1819	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R1820	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R1821	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1822	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1823	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1824	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R1825	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1826	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R1827	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1828	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R1829	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1831	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1832	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1834	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1835	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R1836	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1837	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1842,43	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R1846	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1848	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1849	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1850	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1851	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
■ E5	VEP05395A	H/F AMP C.B.A.	1	(RTL)
C5001	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C5002,03	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	2	
C5004	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5006	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5008	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5016-18	F3F1C1060002	T.CAPACITOR CH 16V 10U	3	
C5021-24	F1G1H8R00003	C.CAPACITOR CH 50V 8P	4	
IC5001	AN3732FJMEFV	IC	1	
L5001	G1C101KA0031	COIL 100UH	1	
L5002,03	G1C100K00019	COIL 10UH	2	
P5001	K1MN08B00040	CONNECTOR	1	
R5001	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5007,08	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
		MISCELLANEOUS		
	VSC4639	SHIELD CASE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E6	VEP04817B	R SIDE C.B.A.	1	(RTL)
C4601	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4602	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4605	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4607	ECST1VV106R	T.CAPACITOR CH 35V 10U	1	
C4617	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C4618	ECST1AC226ZR	T.CAPACITOR CH 10V 22U	1	
C4619	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C4620	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4622,23	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	2	
D4601	MA142K	DIODE	1	
D4604,05	MA142WA	DIODE	2	
D4606,07	MA142K	DIODE	2	
D4608	MA142WA	DIODE	1	
D4609	MA142K	DIODE	1	
IC4601	TA75W558FU	IC	1	C0ABBA000042
IC4605	AN77L09M	IC	1	
P4601	K1KA04B00137	CONNECTOR (MALE)	1	
P4603	K1KA08B00137	CONNECTOR (MALE)	1	
P4604	K1MN51B00007	CONNECTOR	1	
P4605	K1KA02B00053	CONNECTOR (MALE)	1	
P4606	K1MN27B00034	CONNECTOR	1	
P4607	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
P4608	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
Q4601	2SD1819A-R	TRANSISTOR	1	
R4618	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4620	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4622,23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4625	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4627-29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4630	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4632,33	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4635	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4637	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4638	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4639	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4640,41	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4644,45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4690,91	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
SW4601	K0D123A00076	SWITCH	1	
SW4602	K0D122A00126	SWITCH	1	
SW4604,05	K0D122A00126	SWITCH	2	
SW4606,07	EVQQW101M	SWITCH	2	
SW4609-14	EVQQW101M	SWITCH	6	
VR4601,02	D2BBA14A0002	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0T92	INT MIC	1	
■ E7	VEP06E92A	CAMERA OP1 C.B.A.	1	(RTL)
D301-04	MA142WA	DIODE	4	
P301	K1MN10B00052	CONNECTOR	1	
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
SW301	K0D113B00029	SWITCH	1	
SW302-06	K0H1BA000442	SWITCH	5	
		MISCELLANEOUS		
	VMP7335	C.B.A. HOLDER ANGLE	1	
	XQN2+B3FN	SCREW	2	
■ E8	VEP06E93A	CAMERA OP2 C.B.A.	1	(RTL)
D351,52	MA142WA	DIODE	2	
D353,54	MA142K	DIODE	2	
SW351,52	K0E112A00108	SWITCH	2	
SW353	K0H1BA000251	SWITCH	1	
SW355	EVQQW101M	SWITCH	1	
SW356	K9AA01500015	SWITCH	1	
		MISCELLANEOUS		
	VGQ6917	MENU ROTATION KNOB SHEET	1	
	VGU9198	ROTATION KNOB	1	
	XQN2+B3FN	SCREW	3	
	VMP7353	W. BAL ANGLE	1	
	VMP7342	IRIS JOG ANGLE	1	
■ E9	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E10	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E11	VEP001E7A	MENU C.B.A.	1	(RTL)
D610-12	MA142WA	DIODE	3	
D614-16	MA142WA	DIODE	3	
P610	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
SW608	K0H1ZA000001	SWITCH	1	
SW609	EVQQWS01W	SWITCH	1	
■ E12	VEP06F70A	HANDLE 1 C.B.A.	1	(RTL)
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C451,52	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C453	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C454,55	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C456,57	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	
C458,59	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C460,61	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C462	ECST1AX226Z	T.CAPACITOR CH 10V 22U	1	
C463	ECST1CC226Z	T.CAPACITOR CH 16V 22U	1	
C464	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
D451-53	MA142K	DIODE	3	
IC451,52	TA75W01FU	IC	2	
P451	VJS3801B020	CONNECTOR (FEMALE)	1	
P452	K1MN10B00052	CONNECTOR	1	
P453	K1MN07B00070	CONNECTOR	1	
Q451,52	2SD1819A-R	TRANSISTOR	2	
Q453	2SD1824	TRANSISTOR	1	
R453,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R457,58	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R459-62	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R463,64	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R465,66	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R467,68	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R469	ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R481	ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R482,83	ERJ3GEYJ623	M.RESISTOR CH 1/16W 62K	2	
R486	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R487	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R488	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R489,90	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R491-94	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	4	
SW451	RSH1A77ZA-A	SWITCH	1	K0H1BA000104
SW452,53	K0H1BA000433	SWITCH	2	
		MISCELLANEOUS		
	VGQ6880	HANDLE S/S HOLDER	1	
	VGQ6881	T/W BUTTON HOLDER	1	
	VGU9208	HANDLE T/W BUTTON	1	
	VMS7185	HANDLE ZOOM SHAFT	1	
	XUC15FP	E-RING	2	
	XQN2+CJ5	SCREW	2	
	VMG1480	HANDLE T/W BUTTON RUBBER	1	
■ E13	VEP06F04A	HANDLE 2 C.B.A.	1	(RTL)
C471	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C472	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
D471,72	MA142K	DIODE	2	
D473	B3AAB0000129	LED	1	
IC471	VEK8283	REMOTE CONTROL RECEIVER	1	B3RZB0000001
R471	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R472	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
SW471	K0D123A00035	SWITCH	1	
W471,72	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E14	VEP04828A	MIC C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
	VWJ1590	INT MIC FLEX.	1	
■ E15	VEP06E94A	F TALLY C.B.A.	1	(RTL)
C401	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C402	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
D401	B3AAB0000129	LED	1	
IC401	VEK8283	REMOTE CONTROL RECEIVER	1	B3RZB0000001
R401	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R402	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
		MISCELLANEOUS		
	VMZ3344	INSULATION PLATE	1	
	VGF0957	MIC SHADING SHEET	1	
■ E16	VEP000Y2A	EVR CONNECT C.B.A.	1	(RTL)
B51	VSB0407	BATTERY	1	
P51	K1KA30B00055	CONNECTOR (MALE)	1	
P52	K1MN51B00007	CONNECTOR	1	
P53	K1MN16A00038	CONNECTOR	1	
P54	VJS3791B013	CONNECTOR (FEMALE)	1	
P55	K1KA60A00065	CONNECTOR	1	
P56	K1KBC0B00009	CONNECTOR (FEMALE)	1	
R52	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E17	VEP000Y3B	VC CONNECT C.B.A.	1	(RTL)
P551	K1KBC0A00051	CONNECTOR (FEMALE)	1	
P552	VJS3826C024	CONNECTOR (FEMALE)	1	
P553	K1MN12B00105	CONNECTOR	1	
P556	K1KA04B00137	CONNECTOR (MALE)	1	
P557	K1KA80A00098	CONNECTOR (MALE)	1	
P559	K1MN18A00026	CONNECTOR	1	
R551,52	D0YDR0000011	M.RESISTOR CH 1/8W 0	2	
■ E18	VEP000Y4A	LCD OPEN SW C.B.A.	1	(RTL)
SW701	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VMP7354	C.B.A. HOLDER ANGLE	1	
	XQN2+B3FN	SCREW	1	
	VEE0U27	LCD OPEN CABLE	1	
■ E19	VEP000Y6A	REAR JACK CONNECT C.B.A.	1	(RTL)
P251	K1KB30A00128	CONNECTOR (FEMALE)	1	
■ E20	VEP000Y7A	EJECT C.B.A.	1	(RTL)
P651	K1KA02B00053	CONNECTOR (MALE)	1	
SW651	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VMP7334	EJECT C.B.A. HOLDER ANGLE	1	
	XQN2+B3FN	SCREW	2	
■ E21	VEP04819A	REAR JACK C.B.A.	1	(RTL)
C49011,12	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
J49012	VJJ0522	JACK	1	K2HC103B0082
J49013	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
L49013,14	VLF1315A102	FILTER	2	J0JHC0000015
P49011	K1KA02A00237	CONNECTOR (MALE)	1	
P49012	K1MN16B00112	CONNECTOR	1	
R49011-16	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
T49012	VLF1394	FILTER	1	J0MAB0000077

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E22	VEP06E96A	POWER SW C.B.A.	1	(RTL)
D502	MA142WA	DIODE	1	
P501	K1MN10B00070	CONNECTOR	1	
P502	K1MN06B00013	CONNECTOR	1	
SW501	VMG0763	SWITCH	1	
SW502	K0L1BA000015	SWITCH	1	
SW503	K0L1BA000037	SWITCH	1	
		MISCELLANEOUS		
	VMP7434	C.B.A. HOLDER ANGLE	1	
	XQN2+B3FN	SCREW	2	
■ E23	VEP06E90A	ZOOM SW C.B.A.	1	(RTL)
C201,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
D202	MA142K	DIODE	1	
SW201	EVQQWS01W	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E24	VEP000Y9A	TOP OP C.B.A.	1	(RTL)
D601-03	MA142WA	DIODE	3	
D605	MA142WA	DIODE	1	
SW601-04	EVQQWS01W	SWITCH	4	
SW606	EVQQWS01W	SWITCH	1	
■ E25	VEP22351A	GYRO C.B.A.	1	(RTL)
C101	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C102,03	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	
C104-07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	4	
C108,09	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	2	
C112	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C113	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	1	
C116,17	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	2	
C120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C124	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
IC103	C0ABCA000042	IC	1	
IC104	C0JBAS000065	IC	1	
IC105	C0ABAA000046	IC	1	
IC106	L2ES00000010	SENSOR UNIT	1	
IC107	L2ES00000011	SENSOR UNIT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L101	G1C100K00019	COIL 10UH	1	
L103,04	G1C100K00019	COIL 10UH	2	
P101	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R101,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R103-06	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R107	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R110	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R111,12	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R113,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R115-18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R119,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
		MISCELLANEOUS		
	XQN2+B4FN	SCREW	1	
	VMP7352	GYRO ANGLE	1	
■ E26	VEP04858A	SIDE JACK C.B.A.	1	(RTL)
C4451,52	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C4453,54	D4ED1220A006	VARISTORS	2	
C44711	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C44712,13	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	2	
D4451	MA3062M	DIODE	1	
D44711	PH310	DIODE	1	B3GA00000001
D44712	MA132WA	DIODE	1	
J4401	K1FA104A0011	CONNECTOR	1	
J4451	K2HA303A0019	JACK	1	
J4452	K2HZ104A0002	S TERMINAL JACK	1	
L4402,03	J0MAB0000110	FILTER	2	
L4452,53	VLF1315A102	FILTER	2	J0JHC0000015
P4401	K1MN22B00034	CONNECTOR	1	
Q44711	2SD10300SL	TRANSISTOR	1	
Q44712	2SD1819A-R	TRANSISTOR	1	
R4401,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4451-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4460-62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4463	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4464	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4468,69	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R44711	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	D0GD225JA003
R44712	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R44713	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R44714	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R44715	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
TH4401	D4CC11030012	THERMISTOR	1	
■ E27	VEP04815A	EXT MIC CH2 C.B.A.	1	(RTL)
C4003,04	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C4006	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C4009,10	ECA1HEN4R7	E.CAPACITOR 50V 4.7U	2	
C4013	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4016,17	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4019	EEVHB1A330	E.CAPACITOR 10V 33U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4020	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4022	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4026	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4030	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4031	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4032	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4034	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4035	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4036	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4107	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
D4001	MA142WK	DIODE	1	
D4002,03	MA3J14300L	DIODE	2	
D4007	MA142K	DIODE	1	
IC4001	NJM2122M	IC	1	
IC4002	TA75W558FU	IC	1	C0ABBA000042
IC4007	TC7W53FU	IC	1	
IC4008	AN77L09M	IC	1	
J4101	K1AB103A0007	CONNECTOR (MALE)	1	
L4001,02	VLQ0163J100	COIL 10UH	2	G1C100J00001
L4101	VLF1315A102	FILTER	1	J0JHC0000015
L4103	VLF1315A102	FILTER	1	J0JHC0000015
L4110	VLF1315A102	FILTER	1	J0JHC0000015
P4001	K1KA20A00048	CONNECTOR (MALE)	1	
P4002	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
Q4002	2SB1220-R	TRANSISTOR	1	
QR4002	UNR521300L	TRANSISTOR	1	
QR4004	UNR521300L	TRANSISTOR	1	
QR4006	UNR521300L	TRANSISTOR	1	
QR4008	UNR511300L	TRANSISTOR	1	
QR4010	UNR521300L	TRANSISTOR	1	
R4006	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4009,10	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R4015,16	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R4019,20	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	
R4021	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4022	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4024	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4030	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R4031,32	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4040	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4044,45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4048,49	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4051	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4053	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4055	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R4057	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4060	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4061	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4062	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4066	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
SW4001	K0D142A00023	SWITCH	1	
■ E28	VEP04865A	EXT MIC CH1 C.B.A.	1	(RTL)
C4001,02	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C4005	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C4007,08	ECA1HEN4R7	E.CAPACITOR 50V 4.7U	2	
C4011	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4012	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4014,15	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4018	EEVHB1A330	E.CAPACITOR 10V 33U	1	

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4021	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4023	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4024	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4025	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4027,28	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4029	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4033	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4037	EEVHB1H3R3	E.CAPACITOR 50V 3.3U	1	
C4038	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4108	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
D4004,05	MA3J14300L	DIODE	2	
D4006	MA142K	DIODE	1	
IC4003	AN77L09M	IC	1	
IC4004	NJM2122M	IC	1	
IC4005	TA75W558FU	IC	1	C0ABBA000042
IC4006	TC7W53FU	IC	1	
J4102	K1AB103A0007	CONNECTOR (MALE)	1	
L4003,04	VLQ0163J100	COIL 10UH	2	G1C100J00001
L4105	VLF1315A102	FILTER	1	J0JHC0000015
L4107,08	VLF1315A102	FILTER	2	J0JHC0000015
P4003	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
Q4001	2SB1220-R	TRANSISTOR	1	
Q4003	2SD1819A-R	TRANSISTOR	1	
Q4004	2SD1824	TRANSISTOR	1	
QR4001	UNR521300L	TRANSISTOR	1	
QR4003	UNR521300L	TRANSISTOR	1	
QR4005	UNR521300L	TRANSISTOR	1	
QR4007	UNR511300L	TRANSISTOR	1	
QR4009	UNR521300L	TRANSISTOR	1	
R4001	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4007,08	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R4011,12	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R4013	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4014	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4017,18	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	
R4023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4029	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R4033,34	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4035	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4036	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4037	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4039	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4042,43	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4046,47	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4050	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4052	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4054	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R4056	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4058	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4059	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4063	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4064	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4067	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
SW4002	K0D142A00023	SWITCH	1	
■ E29	VEP06E89B	MODE SW C.B.A.	1	(RTL)
D151	MA142WA	DIODE	1	
D152-56	MA142K	DIODE	5	
D157	B3AAB0000037	DIODE	1	
D158	B3ABB0000086	LED	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D160	MA142K	DIODE	1	
P152	VJS3791B013	CONNECTOR (FEMALE)	1	
R154	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R155	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
SW151	K0G119A00024	SWITCH	1	
SW152,53	K0H1BA000251	SWITCH	2	
		MISCELLANEOUS		
	VMZ3345	LED INSULATION PLATE	1	
■ E30	VEP01923A	DC IN C.B.A.	1	(RTL)
J31	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E31	VEP01915B	BATTERY C.B.A.	1	(RTL)
C2	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C3	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
D1	NSD03A20	DIODE	1	
⚠ IP1	K5H312300003	FUSE	1	
L2	J0MAB0000060	FILTER	1	
P1	K1KA03B00102	CONNECTOR (MALE)	1	
■ E32	VEP26257A	MONITOR C.B.A.	1	(RTL)
■	VEP06E29A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257A
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	T.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 100UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	